E v o l D i r

October 1, 2020

M o n t h i n R e v i e w

Foreword

This listing is intended to aid researchers in population genetics and evolution. To add your name to the directory listing, to change anything regarding this listing or to complain please send me mail at Golding@McMaster.CA.

Listing in this directory is neither limited nor censored and is solely to help scientists reach other members in the same field and to serve as a means of communication. Please do not add to the junk e-mail unless necessary. The nature of the messages should be "bulletin board" in nature, if there is a "discussion" style topic that you would like to post please send it to the USENET discussion groups.

Instructions for the EvolDir are listed at the end of this message.

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Conferences

Ghent NextGenerationSequencing Mar11-12

11-12 March 2021, Ghent, Belgium

Dear colleague,

After three successful sold out editions,VIBis proud to present to you the fourth edition ofRevolutionizing Next-Generation Sequencing,a VIBTools & Technologies conference, which will take place on11-12 March 2021inGhent, Belgium.

As the speaker line-up is almost final, we would like to invite you to have a look at the conference website to read more about the program:

Visit the conference website

Key researchers presenting cutting edge science

Over the past decade, technological advances that enable the characterization of single cells at the molecular level rather than in bulk tissues have led to significant breakthrough discoveries with revolutionary insights in diseases, such as cancer, inflammatory and neurodegenerative diseases. Therefore, specific focus of this conference will be on advances in single cell sequencing, ranging from transcriptomics, genomics, proteomics to combined multi-omics analysis at the single cell level.

On top, with spatial context of cells becoming increasingly important to unravel cell functioning and behavior, a dedicated session will focus on technological advancements in spatial sequencing and breakthrough scientific discoveries that these have enabled.

This exciting conference puts together an excellent program including renowned leaders in the field that will cover the following topics:

Long reads & genome structure Single cell sequencing Spatial sequencing technologies Population scale and clinical sequencing Technology trends

You can find the list of the already confirmed key researchers and tech leaders on the conference website.

Visit the conference website

Showcase your own research

RNGs21 offers you an ideal platform to showcase your research data during the poster sessions.You can submit

an abstract for a poster and/or oral presentation. You do not have to register before submitting your abstract.

The best six submissions will be given a chance to pitch their poster in the plenary program. Participants of the poster sessions will have a chance to win the RNGS21 poster prize.

Upload your abstract

VIB is monitoring the covid-19 situation. If we need to switch to a fully virtual format, you will have the choice to cancel your participation with refund or to join the online event and receive a partial refund.

We look forward to talking to you in March 2021!

With kind regards, Evy Vierstraete

Organizing Committee: Catharine Aquino, Functional Genomics Center Zurich, ETH Zurich, CH Jeroen Aerts, VIB Headquarters, BE Wouter De Coster, VIB-UAntwerp Center for Molecular Neurology, BE Stéphane Plaisance, VIB Nucleomics Core, BE Andreas Sommer, Vienna BioCenter Core Facilities, AT Mojca Strazisar, VIB-UAntwerp Center for Molecular Neurology, BE Toon Swings, VIB Headquarters, BE Joris Vermeesch, KU Leuven, BE Evy Vierstraete, Science Events Manager VIB, BE

We wanted to let you know that we'Âve updated our privacy policyand terms & conditions. We'Âve made these changes to comply with the new General Data Protection Regulation (GDPR) and to improve transparency on how we process and use personal data you share with us.

While these policies may not be the most exciting reading material, we encourage you to take a few minutes and review them. If you have any questions about the changes, feel free to reach out: conferences@vib.be.

To stop receiveiving our invitations please click below.

Tweet

Share

Evy Vierstraete <team@vibconferences.be>

Marseilles EvolutionaryBiol Registration Oct1

Dear all ,

registrations for the EBM 24 start October 1st 2020 web site http://aeeb.fr < https://t.co/x6FwUOF0ve?amp=1 > https://ebm24.sciencesconf.org < https://t.co/pYJNQoCYsr?amp=1 > any questions contact marie-helene.rome@univ-amu.fr all the best Pierre

< https://twitter.com/pontarotti >

PONTAROTTI Pierre <pierre.pontarotti@univ-amu.fr>

Online BigCatConservation Sep24-Oct22

Dear all,The Seoul National University (SNU) will be organizing an international webinar series on big cat conservation from September 24, 2020. The webinar series include four online sessions (Sept 24, Oct 8, Oct 15, and Oct 22, 2020) covering wide range of topics such as 'V (1) impact on Covid-19 pandemic on the big cat conservation efforts, (2) big cat reintroduction and restoration, (3) human big cat coexistence, and applications of genetics in big cat conservation and management.The webinar is open for participants from South Korea, Russia, India, Bangladesh, Nepal and China. The complete webinar details are attached for your reference.Registration is free but with limited participants from each country.Registration link:https://docs.google.com/forms/d/e/-1FAIpQLSfD9bcTU3TE1ESzHuB1iT01PCY4OiZOt64pqsgJiIVjC63AP viewform?usp=sf_link (Last date to apply - Sept 21, 2020)Successful candidate (those who qualify selection criteria) will be informed by email.E-certificates will be provided to each participant having more than 70% attendance.

Best wishes, Puneet Pandey, PhD.Project Investigator (Asian Big Cats Conservation Project)Conservation Genome Resource Bank for Korean Wildlife (CGRB)Bldg. # 85-812 Seoul National University College of Veterinary Medicine,1 Gwanak-ro, Gwanak-gu,Seoul 08826, South KoreaTel: 010-2909-8866 (CP in Korea), 8368702446 (CP in India) E-mail:puneet.pandey09@snu.ac.kr; puneet.pandey09@gmail.com

puneet.pandey09@snu.ac.kr

Online COVID19DynamicsEvolution Oct19-20

Abstracts are being accepted until Sunday Sept 20th for the next COVID-19 Dynamics & Evolution Conference, to be held Oct 19-20, 2020. Inspired by the long-running HIV Dynamics & Evolution meeting, this (virtual) event will bring together researchers taking quantitative and computational approaches to studying the SARS-CoV-2/COVID-19 pandemic. We welcome abstracts on a range of topics including mathematical modeling (e.g. modeling interventions, epidemic forecasting efforts, methods for fitting models to data, within-host modeling), epidemiological analyses (e.g. estimating key epidemiological features/parameters like serial interval or fatality rate, designing and analyzing epidemiological studies like contact tracing efforts or vaccine trials) and phylogenetic studies (e.g. phylodynamic/phylogeographic analyses, identification and interpretation of novel mutations, estimating epidemiological parameters from viral genetic data). Further program details, registration, abstract submission, and details on our two previous meetings is available online: https://cpd.ucsd.edu/covid19 Alison Hill <alhill@fas.harvard.edu>

Online CulturalEvolution Sep29-Nov24

Weekly webinars on Cultural Evolution

TheCenter for the Dynamics of Social Complexity (www.dysoc.org) and theNational Institute for Mathematical and Biological Synthesis (nimbios.org) are happy to announce a series of free webinars on Cultural Evolution.

This series is one of the outputs of a grant "Dynamic Models for Basic Theory and Applications in Cultural Evolution" funded by theJohn Templeton Foundation(PIs Sergey Gavrilets and Peter J Richerson) aiming to promote theCultural Evolution Society (https://-www.culturalevolutionsociety.org/). The grant has supported the development of online teaching modules on cultural evolution. Five modules have been completed and are currently available athttp://www.dysoc.org/-cesmodules. The modules were selected after an international competition organized by the CES Working Group for Education and Outreach composed of Drs.Louise Barrett(University of Lethbridge),Sergey Gavrilets(UT Knoxvlle), Russel Genet (California Polytechnic State University),Patricia Izar(University of San Paolo),Luke Matthews(RAND Corporation), andPeter J. Richerson(UC Davis).

The webinar series includes live presentations by lead designers of the five completed modules, an opening lecture by the first President of the CES and the lead PI on the proposalPeter J. Richerson(UC Davis), and a lecture by CES Working Group memberPatricia Izar(University of San Paolo).

There are also invited lectures by Drs.Peter Turchin(Complexity Hub Science Vienna) andRuth Mace(University College London). Besides running their research programs, Drs. Turchin and Mace are the founding editors of two important journals in the field of cultural evolution:Cliodynamics: The Journal of Quantitative History and Cultural Evolution (https://-escholarship.org/uc/irows_cliodynamics) andEvolutionary Human Sciences (https://www.cambridge.org/core/-journals/evolutionary-human-sciences), respectively.

Below is the schedule. For more information see here: http://www.dysoc.org/ces_webinars To participate or receive updates register here:

https://tennessee.zoom.us/webinar/register/-WN_yBAGOoa7RxemQF7_akYOtg

Sept. 29: Peter J. Richerson (UC Davis) Outreach for the Cultural Evolution Society: Everybody needs to know a little bit about cultural evolution

Oct. 6: Paul Smaldino (UC Merced) How to Teach Modeling, or Thoughts on a Pedagogy for Cultural Evolution

Oct. 13: Andy Whiten (University of St Andrews, UK) Animal Cultures: Core Discoveries and New Horizons

Oct. 20: Joe Stubbersfield (Heriot-Watt University, UK) Cognitive Biases in Folklore: From Fairy Tales to Fake News

Oct. 27: Adrian Bell (Utah) Foundations of Cultural Evolution

Nov. 3: Bernie Koch (UCLA) Modeling the Dynamics of Cultural Diversification

Nov.10: Peter Turchin (Complexity Science Hub Vienna) Cultural Macroevolution: Understanding the rise of large-scale complex societies in human history

Nov.17 - Ruth Mace (UCL) Behavioural ecology of reli-

gious belief and practice:two and half studies

Nov.24 - Patricia Izar (University of Sao Paulo, Brazil) The Impact of a Tradition on the Life of Capuchin Monkeys

All webinars will be start at 11:45 am eastern time.

Register here https://tennessee.zoom.us/webinar/-register/WN_yBAGOoa7RxemQF7_akYOtg once for the entire series 'V you will receive a reminder before each webinar.

NIMBioS hosts a Q&A via Zoom for these webinars. Viewers are able to submit questions throughout the talk, which are answered at the end of the talk. You can also up vote questions. Unable to attend the live presentation? Register to attend, and you will receive a link to the recorded webinar on our NIMBioS YouTube channel: https://www.youtube.com/user/NIMBioS Sergey Gavrilets Department of Ecology and Evolutionary Biology Department of Mathematics Associate Director for Scientific Activities National Institute for Mathematical and Biological Synthesis (NIMBioS) Director, Center for the Dynamics of Social Complexity (DySoC) University of Tennessee, Knoxville, TN 37996 Research Affiliate School of Anthropology, University of Oxford 51-53 Banbury Rd, Oxford OX2 6PE External Faculty Complexity Science Hub Vienna Josefstadter Strasse 39, A1080 Vienna

phone: (865) 974-8136 fax: (865) 974-3067 e-mail: gavrila@tiem.utk.edu web: www.tiem.utk.edu/~gavrila NIMBioS: www.nimbios.org

— / —

This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

Online EvolutionaryNeuroscience Oct22-23

The Karger workshop and JBJC meeting will feature exciting talks in evolutionary neuroscience on Thursday-Friday October 22-23. The 2020 virtual Karger and JBJC meetings registration is now open. This year's Karger workshop in evolutionary neuroscience is entitled "Heterochrony in Comparative Neurodevelopment" and is organized by Dr. Andrew C. Halley.

There is no registration fee to attend. However, *you must be a current member to register. *Please renew your membership before you register.

Please go to https://www.jbjclub.org/join-today.html. After you have joined, head over to our registration page, https://www.jbjclub.org/registration.html and click on the blue "Register" button to sign up. You will need an access code to register, which you will receive in the confirmation of your membership. The agenda and talk titles are currently listed on our website: https://www.jbjclub.org/karger-workshop.html. Please see more information on speakers, special events and schedules for the JB Johnston schedule as we get the details ironed out: https://www.accelevents.com/e/-JBJohnstonClubMeetings. This is a great opportunity to attend this virtual event no matter where you are!

Christine Charvet, PhD Assistant Professor Center for Neuroscience Delaware State University https://-www.charvetlab.com charvetcj@gmail.com

Online EvolutionEcology Sep23

Dear EvolDir,

Join us for the next week of our popular online seminar series in Evolution and Ecology.

—

Wed 23 Sept

Prof. Scott Edwards (Museum of Comparative Zoology, Dept. of Organismic & Evolutionary Biology, Harvard University, USA)

Title TBC

—

When: 5-6PM BST / 9-10AM PDT, Wednesdays

Where: talks live-streamed to our YouTube channel https://www.youtube.com/channel/-UCMsYvoHLNVm4rbcTLj162zQ , post your questions for our speakers via Slack

Publicity: upcoming talks promoted on Slack & Twitter @EvoEcoSeminars (https://twitter.com/-EvoEcoSeminars)

How to join: our Slack 'Evolution and Ecology Seminars' here https://join.slack.com/t/evolutionecol-xl54980/-shared_invite/zt-ev4fe0io-M7B~D6p74blV_ZRcDtmAcg Please follow our Twitter feed and join the Slack group for details of future upcoming talks.

Hope that you can join us. Feel free to circulate to anyone who may be interested.

Many thanks,

Dr. Elizabeth Duxbury Dr. Andreas Sutter Dr. Iulia Darolti Dr. Wouter van der Bijl

—-

Dr. Elizabeth Duxbury Senior Postdoctoral Research Associate Prof. Alexei Maklakov Group School of Biological Sciences University of East Anglia Norwich Research Park UK

"Elizabeth Duxbury (BIO - Staff)" <E.Duxbury@uea.ac.uk>

Online EvolutionEcol Sep30

Dear EvolDir,

Join us for the next week of our popular online seminar series in Evolution and Ecology.

—

Wed 30 Sept

Prof. Daniel Matute (Dept. of Biology, University of North Carolina, USA)

"On the evolution of postzygotic isolation during divergence"

—

When: 5-6PM BST / 9-10AM PDT, Wednesdays

Where: talks live-streamed to our YouTube channel https://www.youtube.com/channel/-UCMsYvoHLNVm4rbcTLj162zQ , post your questions for our speakers via Slack

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How to join: our Slack 'Evolution and Ecology Seminars' here https://join.slack.com/t/evolutionecol-xl54980/-shared_invite/zt-ev4fe0io-M7B~D6p74blV_ZRcDtmAcg Please follow our Twitter feed and join the Slack group for details of future upcoming talks.

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—- Dr. Elizabeth Duxbury Senior Postdoctoral Research Associate Prof. Alexei Maklakov Group School of Biological Sciences University of East Anglia Norwich Research Park UK

"Elizabeth Duxbury (BIO - Staff)" <E.Duxbury@uea.ac.uk>

Online EvolutionEcol Sep9

Dear EvolDir,

Join us for the next week of our popular online seminar series in Evolution and Ecology.

—

Wed 9 Sept

Prof. Cassandra Extavour (Dept. of Organismic & Evolutionary Biology, Harvard University, USA)

Title TBC

—

When: 5-6PM BST / 9-10AM PDT, Wednesdays

Where: talks live-streamed to our YouTube channel https://www.youtube.com/channel/-UCMsYvoHLNVm4rbcTLj162zQ , post your questions for our speakers via Slack

Publicity: upcoming talks promoted on Slack & Twitter @EvoEcoSeminars (https://twitter.com/-EvoEcoSeminars)

How to join: our Slack 'Evolution and Ecology Seminars' here https://join.slack.com/t/evolutionecol-xl54980/-shared_invite/zt-ev4fe0io-M7B~D6p74blV_ZRcDtmAcg Please follow our Twitter feed and join the Slack group for details of future upcoming talks.

Hope that you can join us. Feel free to circulate to anyone who may be interested.

Many thanks,

Dr. Elizabeth Duxbury Dr. Andreas Sutter Dr. Iulia Darolti Dr. Wouter van der Bijl

—- Dr. Elizabeth Duxbury Senior Postdoctoral Research Associate Prof. Alexei Maklakov Group School of Biological Sciences University of East Anglia Norwich Research Park UK

"E.Duxbury@uea.ac.uk" <E.Duxbury@uea.ac.uk>

Online Evolution Sep16

Dear EvolDir,

Join us for the next week of our popular online seminar series in Evolution and Ecology.

—

Wed 16 Sept

Prof. Anna Qvarnström (Department of Ecology and Genetics, Uppsala University, Sweden)

“Climate adaptation and speciation”

—

When: 5-6PM BST / 9-10AM PDT, Wednesdays

Where: talks live-streamed to our YouTube channel https://www.youtube.com/channel/-UCMsYvoHLNVm4rbcTLj162zQ , post your questions for our speakers via Slack

Publicity: upcoming talks promoted on Slack & Twitter @EvoEcoSeminars (https://twitter.com/-EvoEcoSeminars How to join: our Slack ’Evolution and Ecology Seminars’ here https://join.slack.com/-t/evolutionecol-xl54980/shared_invite/zt-ev4fe0io-M7B ˜ D6p74blV_ZRcDtmAcg Please follow our Twitter feed and join the Slack group for details of future upcoming talks.

Hope that you can join us. Feel free to circulate to anyone who may be interested.

Many thanks,

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—- Dr. Elizabeth Duxbury Senior Postdoctoral Research Associate Prof. Alexei Maklakov Group School of Biological Sciences University of East Anglia Norwich Research Park UK

“E.Duxbury@uea.ac.uk” <E.Duxbury@uea.ac.uk>

Online FirstItalianCongressMarineEvolution Nov23-25

Dear friends and colleagues,

We are glad to announce the First Italian Congress on Marine Evolution (Primo Congresso Italiano di Evoluzione Marina), EVOLMAR2020. The conference is organized by the Stazione Zoologica Anton Dohrn, Naples (SZN) and the Italian Society for Evolutionary Biology (SIBE-ISEB), and will take place in an entirely virtual format during the last week of November 2020.

The meeting will feature a combination of invited keynotes, contributed talks and posters. The scientific committee will evaluate submitted abstracts and arrange them in a program revolving around 4 thematic areas: macroevolution, populations and species, adaptation, biodiversity. A number of prizes and awards will be made available for the best presentations by students and junior researchers.

There will also be a photo contest with prizes for the best photos depicting aspects of marine evolution.

Deadline for abstract submission is October 4th, for registration October 30th.

Additional information is available on the conference website (https://www.evolmar.it/) as well as on the Twitter (https://twitter.com/evolmar2020) and Facebook accounts (https://www.facebook.com/-EVOLMAR2020)

The EvolMar Organizing Committee

Francesco Santini <francesco.santini@alumni.utoronto.ca>

Online GenomeEvolution Oct9 reminder

Dear colleagues,

A kind reminder that the abstracts submission deadline (Sept 13th, 2020) for the online conference “Genome Evolution: New Frontiers and Challenges” (Oct 9th, 2020) is approaching.

Remember that the registration is free.

A panel discussion will follow the Q&A rounds.

We encourage you to submit your abstracts on time.

In order to find more information about the meeting, please visit our website: https://-genomeconference.wixsite.com/genomevolution
We'll see you soon!

Best, Alessio —

Organizer: Professor Alessio Boattini (University of Bologna, Italy) Contacts: genome.conference@gmail.com

genome.conference@gmail.com

Online ICQG6 QuantGenetics Nov2-12

The 6th International Conference on Quantitative Genetics, https://icqg6.org , will be presented virtually from Brisbane, Australia during November 2-12 (US time) and sessions will be recorded.

The conference has simplified its scholarship application process. Graduate students and postdocs who attend US universities are eligible to apply for registration scholarships. Members of historically under-represented groups are especially encouraged to submit an application. Many scholarships will be awarded.

To apply, please complete the short online form at https://forms.gle/ar9cvg9vCDh9Sqvq5 Applications must be submitted by October 4, 2020. Questions may be addressed to Bruce Weir at bsweir@uw.edu.

Bruce S Weir <bsweir@uw.edu>

Online MarineEvolution Nov23-25

Dear colleagues,

We would like to remind you about the upcoming deadlines for abstract submission and registration for the First Italian Congress on Marine Evolution (Primo Congresso Italiano di Evoluzione Marina), EVOLMAR2020. The conference is organized by the Zoological Station Anton Dohrn, Naples (SZN) and the Italian Society for Evolutionary Biology (SIBE-ISEB), and will take place in an entirely virtual format on the 23rd-25th of November 2020.

The meeting will feature a combination of invited keynotes, contributed talks and posters around 4 thematic areas: macroevolution, populations and species, adaptation, biodiversity.

We strongly encourage participation by students and junior researchers, who are invited to apply for a number of prizes and awards. There will also be a photo contest with prizes for the best photos depicting aspects of marine evolution.

Conference talks can be in English or Italian (English strongly encouraged), posters have to be prepared in English.

Deadline for abstract submission is October 4th, for registration October 30th. In order to encourage participation, and thanks to the support of many dedicated sponsors, we have been able to keep the registration fee to a minimum (only 10 euros).

Additional information is available on the conference website (https://www.evolmar.it/); on the Twitter (https://twitter.com/evolmar2020), Facebook (https://www.facebook.com/EVOLMAR2020) and Instagram (https://www.instagram.com/evolmar2020/) accounts; or by contacting the congress secretariat: congress[at]evolmar.it

The EvolMar2020 Organizing Committee

Francesco Santini <francesco.santini@utoronto.ca>

Online QuantGenetics Nov3-13

ICQG6 2020 virtual registrations now open! International Conference of Quantitative Genetics

Register at: https://icqg6.org/registration/ Registration for ICQG6 virtual is now open for new registrants. Don't miss the opportunity to be part of the first virtual ICQG.

ICQG6 will now be delivered virtually as an on-line conference from 3 - 13 November 2020 (Australian timezone) which is 2 - 12 November 2020 in some other time-zones.

Please note that if you originally registered for ICQG6 2020, you do not need to register again. You will be contacted by the secretariat in regards to your current

registration; please cancel your travel and accommodation bookings.

Registration Fees ICQG6 Virtual Registration Fee $200 AUD (approx. 150 US/120 Euro) We encourage all delegates to register online for instant confirmation- https://icqg6.org/registration/ Registration fees are quoted in Australian dollars and are inclusive of 10% Goods and Services Tax (GST). Virtual registrations will close on Tuesday 20 October 2020.

Virtual Registration includes: - Unique attendee password-protected access to the ICQG6 virtual conference platform - Program content from world-class speakers delivered in real-time including live discussion - Ability to engage with presenters and other attendees during live presentations through "there's no such thing as a dumb question" discussion channel & Live Q&A - Ability to take notes during sessions and export to your email - Access to view all presentations on-demand, post live presentation - Access to view all presentation abstracts and speaker information - Access to view the ICQG6 Poster Gallery - Access to view the ICQG6 virtual exhibition and opportunity to engage with key sponsors and exhibitors - Opportunity to meet other attendees, exchange contact details and set meetings via the ICQG6 meeting hub

Scholarships There are currently two scholarship opportunities available for ICQG6 virtual. Scholarships for US-based Early Career Researchers (PhD students and post-docs) Registration fee waiver for researchers from lower-income and lower-middle-income countries To read more about the scholarship opportunities, criteria and to apply: https://icqg6.org/scholarships/ Program The ICQG6 program has now been converted into the virtual program. We have scheduled the conference over a two week period, enough of a "block" to get a community buzz, but with a schedule of 3 sessions a day, of which at least two should be within the waking hours of any time zone. Each session is scheduled to have ~1.5 hours of content, but we will let sessions run up to 2 hours if there is a discussion (we hope so!). All sessions will be recorded and will be uploaded immediately, so if the session is in your sleep time, you can watch as soon as you wake! To view the new program in your current time-zone go to: https://icqg6.org/program/ All current accepted oral presenters and poster presenters have been sent email communication outlining their new virtual presentation details and requirements. Please note we will not be accepting oral talks or posters from new registrants.

Contact If you have any questions regarding this email or ICQG6 Virtual please contact the Conference Secretariat via email at registration@icqg6.org

Kindest Regards ICQG6 Virtual Conference Secretariat Email: registration@icqg6.org

k.mcguigan1@uq.edu.au

Online SEPEEG Oct23-30

To ecologists and evolutionary biologists throughout the southeastern United States,

On behalf of the Department of Biological Sciences at Auburn University, we invite you to the 46th annual Southeastern Population Ecology and Evolutionary Genetics Conference (SEPEEG). This meeting is intended to be a supportive and engaging event to to bring together students, postdocs, and faculty with ties to the southeastern United States. Typically, this meeting is a single-session, collaborative conference/retreat environment that fosters informal research discussions and social interactions.

As a result of the COVID-19 pandemic, we have made the decision to postpone an in person meeting. However, due to the important opportunity this meeting provides to allow trainees to present research and network in an informal community of researchers, we have opted to continue with a fully online and interactive meeting this year. We have selected 4 days over the course of a week in which to promote fun and inviting conference activities for 1 to 3 hours at a time, coinciding with either lunch-time or evening.

We anticipate having room for up 15-20 research presentations and 20-30 research posters as part of a virtual, live poster symposium that will be available on the conference website and connected through Zoom meetings. Presentation priority will be given to students, postdocs, and newcomers to the southeastern region.

**** Conference: SEPEEG— **** What: 46th annual Southeastern Population Ecology and Evolutionary Genetics Conference Where: Online (hosted by Auburn University) When: 23, 26, 27, & 30 October 2020

**** Deadlines **** Registration: 5 PM October 2nd, 2020

**** Registration **** Register at: aub.ie/sepeeg20 Meeting website: https://auburn.edu/cosam/sepeeg20 *Registration is free* Please be sure to register by the October 2 deadline (even if you do not submit a talk/poster for consideration) so we can plan meeting logistics appropriately.

To facilitate networking, we ask that you share your research interests at registration to help structure the breakout rooms.

**** Tentative Schedule **** Times listed are for CENTRAL time zone and subject to further refinement ——- Friday, October 23rd, 3:00 to 6:00PM Research Talk Session #1 ——— - Five 15 minute research talks ——— - 30 minutes networking in breakout rooms ——— - Five 15 minute research talks

—- Monday, October 26th, 11:30AM to 12:30PM Poster Session A ——— - Presenters of first half of posters available via zoom for chat

—- Tuesday, October 27th, 11:30AM to 12:30PM Poster Session B ——— - Presenters of second half of posters available via zoom for chat

—- Friday, October 30th, 3:00 to 6:00PM Research Talk Session #2 ——— - Five 15 minute research talks ——— - 30 minutes networking in breakout rooms ——— - Five 15 minute research talks

Contact either Laurie Stevison (lss0021@auburn.edu) or Matthew Wolak (terps@auburn.edu)

We are looking forward to seeing you (virtually) at the meeting!

Sincerely, Laurie and Matthew

–

Matthew E. Wolak, Ph.D. Assistant Professor Department of Biological Sciences Auburn University 306 Funchess Hall Auburn, AL 36849, USA

http://qgevoeco.com Email: matthew.wolak@auburn.edu Tel: 334-844-9242

Matthew Wolak <mew0099@auburn.edu>

Online StateOfTheWorldSPlantsAndFungi Oct13-15

Dear colleagues,

We are pleased to announce that the first international State of the World's symposium combining both plants and fungi will take place online from 13 to 15 October 2020.

Join international experts to discuss actions for protecting and sustainably using the world???s plant and fungal biodiversity for the benefit of people and the planet.

Please save the dates and share details of this event with relevant networks and colleagues.

State of the World's Plants and Fungi Virtual Symposium 13 ??? 15 October 2020 Online worldwide (over three shortened days, to accommodate participation across different time zones)

In conjunction with the publication of a groundbreaking report, scientists, policymakers, businesses, NGOs, the public and media will come together online for the State of the World's Plants and Fungi Virtual Symposium.

Plants and fungi are the building blocks of our planet, with the potential to solve urgent problems that threaten human life. These vital resources, however, are being compromised by biodiversity loss and now, more than ever, we need to explore the solutions that plants and fungi could provide.

In September 2020 we will be publishing, in collaboration with international researchers, the very first State of the World???s report that combines both plants and fungi. The report takes a deep dive into how we currently use plants and fungi, what we are missing and what we are at threat from losing.

This online symposium brings together experts to discuss findings presented in the report and to motivate actions for protecting and sustainably using the world???s plant and fungal diversity. The outcomes of the discussions will be used to inform policies and research aimed at exploring and sharing knowledge and benefits associated with plants and fungi around the world.

By holding it online, we???re able to bring together even more people globally ??? representing a diverse range of skills, experience and ethnic backgrounds. Through our virtual platform???s live text chat and face-to-face video conferencing facilities, delegates will be able to network, contribute to the debate, present their results and spark new collaborations.

Programme The symposium is based around six themed sessions in which invited experts will address a topical question through presentations and a Q&A panel discussion:

Collections ??? Why are they important for averting biodiversity loss? What should we do to help them evolve to enable us to address future challenges?

Biodiversity loss ??? What is driving the extinction rates?

Plant and fungal uses ??? How can we maximise the use of plant and fungal diversity to meet global challenges?

Genomics ??? How do we embrace novel approaches to studying plant and fungal biodiversity?

Commercialisation ??? How do we optimise the economic benefits of plant and fungal biodiversity in recognition of different stakeholders??? needs?

Policies ??? How can we work globally to respect and enable Access and Benefit- Sharing and CITES regulations, while increasing the diversity of plants and fungi being studied?

Other highlights include:

Virtual poster presentations and prizes Workshops and networking discussions Virtual Kew: experience Kew Gardens through virtual tours and behind the scenes video footage

Virtual poster presentations and prizes Delegates are invited to submit an abstract to present a ???virtual poster??? ??? a one-minute pre-recorded presentation using PowerPoint slides, audio and (optional) video. Prizes will be awarded for the best student and early career researcher virtual poster presentations.

Abstract submissions will open soon.

Registration and tickets Standard ticket: ??10 Fee waiver: to help ensure that the symposium is as open to participation as possible, delegates may apply for a fee waiver at the time of registration.

Tickets include access to all live sessions and recordings, virtual posters, networking discussions, virtual tours and more.

Registration opens very soon. For more information, please visit kew.org/sotwpf-symposium

If you no longer wish to hear from us about our State of the World???s Plants and Fungi project, please email sotwpf@kew.org stating ???please unsubscribe??? in the subject line.

Please take some time to read our privacy policy which explains what data we collect and why, how we use and store it, and other information relevant to the privacy of your data.

Very best wishes,

Prof Alexandre Antonelli(he/him) Director of Science

Royal Botanic Gardens, Kew Richmond, Surrey, TW9 3AE, UK sotwpf@kew.org

kew.org/sotwpf-symposium

The Royal Botanic Gardens, Kew is a non-departmental public body with exempt charitable status, whose principal place of business is at Royal Botanic Gardens, Kew, Richmond, Surrey TW9 3AE, United Kingdom.

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

Online TheGrammarOfLife Nov6

Dear colleagues,

I would like to invite you to our online Zoom-based free conference entitled “The Grammar of Life” that will take place on Nov 6th, 2020. Most of its topics will focus on the new discoveries in the field of theoretical genomics (DNA simmetries, regularities, entropy, etc), highlighting the aspects that have been clarified and those that need further investigations. This is a conference that links genomics, evolutionary biology, informatics and physics.

Remember that— the— registration is free.

A panel discussion will follow the Q&A rounds.

We encourage you to submit your abstracts on time by October, 16th.

In order to find more information about the meeting, please visit our website at:

www.glc2020.it We’ll see you soon!

Best,

Cristian

— Contacts: info@glc2020.it Organizer: Professor Cristian Taccioli MAPS Department, University of Padova Viale dell’Universita’ 16 35020, Legnaro (PD) Italy —

Cristian Taccioli <cristian.taccioli@unipd.it>

Online Transposons Sep30-Oct02

Dear colleagues,

A gentle reminder that the abstract submission deadline for the Uppsala Transposon Symposium (to be

held on September 30 October 02, 2020) is approaching: September 13.

Registration is free, includes coffee breaks (please B.Y.O.B.) and discussion rounds for networking, and the opportunity to present your research as a regular talk or lightning talk with poster. We encourage especially early-career researchers to submit abstracts on topics related to transposons, viruses, and genetic conflicts!

You can find more information about the meeting and this year's virtual format here: https://-transposonsymposium.wordpress.com/4th-uppsala-transposon-symposium-gone-virtual/ Welcome and please stay safe everyone!

Best wishes, Alex

(on behalf of the organizing committee)

—

Organizing committee: - Alexander Suh (University of East Anglia and Uppsala University) - Claudia Kutter (Karolinska Institute) - Patric Jern (Uppsala University) - Contact us: transposonsymposium@gmail.com

När du har kontakt med oss pÃÂ¥ Uppsala universitet med e-post sÃÂ¥ innebär det att vi behandlar dina personuppgifter. For att läsa mer om hur vi gor det kan du läsa här: http://www.uu.se/om-uu/dataskydd-personuppgifter/ E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: http://www.uu.se/en/about-uu/data-protection-policy "alexander.suh@ebc.uu.se" <alexander.suh@ebc.uu.se>

Online YoungInvestigators Oct30

The Max Planck-Harvard Research Center for the Archaeoscience of the Ancient Mediterranean (MHAAM), a collaboration between The Initiative for the Science of the HumanPastat Harvard (SoHP and the Max Planck Institutefor the Science of Human History in Jena, Germany (MPISHH) announces an opportunity for recent (and graduating) juniors, seniors and Master's students to participate in a virtual Young Investigator Symposium on Friday, October 30, 2020. Students will have an opportunity to present cross-disciplinary research which utilizes modern scientific tools and knowledge to illuminate the history ofhumanity, and to network with other students and faculty members similarly engaged. An interest in the Ancient Mediterranean is desirable but not indispensable. Due to COVID-19, the Symposium will take place entirely online. Fellowships for graduate study at Harvard University (with research conducted in Germany) may become available later. Students interested in applying for the Symposium should arrange to send a letter of application, an abstract of research to be presented, a CV, an academic transcript, and, separately, a letter of recommendation, to be submitted by October 6, 2020 tosohpchair@fas.harvard.edu

Further information on MHAAM (including highlights on current fellowship recipients, and interdisciplinary research) can be found at: archaeoscience.org, and inquiries can be sent to:sohpchair@fas.harvard.edu

"Lubarr, Lisa R." <llubarr@fas.harvard.edu>

UAdelaide EcolEvolution Sep4

We hope you can join us for our Ecology & Evolution Seminar < https://sciences.adelaide.edu.au/biological-sciences/engagement-industry/seminars-ecology-evolution-series > this Friday, the first in our Spring Series on Environmental Diversity. Hosted by The University of Adelaide.

Zoom in for our free, monthly, first Friday's seminar: exciting, cutting-edge science by highly respected Professor Sean Connell and PhD Candidate, Angus Mitchell.

Friday 4 September

3-4 pm via Zoom (local Adelaide time, ACST - UTC +9:30) Recording will be available online < https://sciences.adelaide.edu.au/biological-sciences/-engagement-industry/seminars-ecology-evolution-series > the week after live seminar.

Angus Mitchell < https://researchers.adelaide.edu.au/-profile/angus.mitchell >

Growing up by the sea drove Angus' fascination with the ocean. After completing Honours on the effects of temperature on tropical and temperate fish, he decided to delve deeper.

Angus is now looking at the effects of ocean warming and acidification on tropical fish shifting their home range, and on their new temperate neighbours. Angus is a PhD student with Professor Ivan Nagelkerken < https:/-/researchers.adelaide.edu.au/profile/ivan.nagelkerken > and external Co-supervisor Professor David Booth.

—

Professor Sean Connell < https://-researchers.adelaide.edu.au/profile/sean.connell >

Sean is a highly respected marine biologist who's intrigued by how our brains respond to the world around us. Along with his students, Sean has boosted evidence-based polices to create cleaner and healthier coasts. They've improved the treatment of coastal seas and restored 20 hectares of oyster reefs [with a second one on its way for 2020]!

To launch our Spring Series, Sean will explore how diversity provides ecological mechanisms that allow natural systems to withstand shocks and partner with humans for their restoration.

If you're a PhD Candidate and wish to count seminar attendance as part of your CaRST credit, please register here < https://goo.gl/forms/RrScv47rdvhIdIVx1 >.

Please spread the word to everyone who might like to join us.

See you there!

Bowie and Jasmin

Jasmin Packer Convenor | Ecology & Evolution Seminar Series Research Fellow Environment Institute | The University of Adelaide Adelaide, Australia.

Jasmin Packer <j.packer@adelaide.edu.au>

GradStudentPositions

BOKU Vienna EvolutionaryBiology

A position as research associate without PhD (Wissenschaftlicher Mitarbeiter ohne Doktorat) is filled at the Institute for Nature Conservation Research, University of Natural Resources and Life Sciences, (BOKU) Vienna, to support the molecular biodiversity research lab. The group conducts research on conservation and population genetics, phylogeography and phylogenetics on a wide array of taxa, including plants and animals. The research covers general evolutionary biology questions and ecology related to biodiversity. Current projects involve for example, adaptive evolution on oceanic Islands, genetic diversity in biological invasions and evolutionary effects of human mediated translocations and admixture. The candidate should contribute to the single research projects from planning to bioinformatics and statistical analyses. It is expected that the holder of the position develops a PhD thesis within one of the projects conducted in the lab. The Position includes also a moderate teaching obligation.

The ideal candidate should hold a Master in Biology or related fields and should be familiar with evolutionary biology or molecular ecology research questions, ideally shown by a relevant master thesis. The most constant research lines in the lab are on plants, so a strong interest in Botany is a plus, even though other backgrounds will be considered. The candidate should be familiar with the DNA based laboratory procedures and population genetic and phylogenetic analyses. Because of the strong focus of the lab on data collection using the lllumina technology, experience with the analysis of the respective data is desired.

The Position is available for four years, starting from Oct. 1 st, 2020. Applications from female Scientists are especially encouraged. To apply please send a coverletter, CV a short outline of research interests and contact Information of persons that can be contacted for references. Applications should be submitted before September 28th for full consideration.

The full job description and details how to apply can be found online at: http://short.boku.ac.at/jobboerse under the title “Postgraduate Research Associate (30 hours per week) - Reference Code 163”

Inquiries can be directed to Harald Meimberg, meimberg@boku.ac.a

Harald Meimberg <meimberg@boku.ac.at>

Cologne CropEvolution

Dear all,

we are currently looking for a motivated PhD student interested in plant evolutionary genomics. The “Crop Evolution” group of Dr. Markus Stetter at the Institute for Plant Sciences and the Cluster of Excellence on Plant Sciences (CEPLAS) studies the evolution and adaptation of crops. We use population and quantitative genetics to understand how wild plants became crops and how these crops spread across the globe. Our models are maize and amaranth (for details visit www.cropevolution.org). The selected candidate will work on a DFG funded project studying the evolution of the genomic landscape during the repeated domestication of grain amaranth.

The successful candidate will produce and analyze genomic, epigenetic and phenotypic data of wild and domesticated amaranth. The tasks include running greenhouse experiments with mapping populations, molecular lab work, and computational data analysis.

The ideal candidate should hold a master degree biology, agricultural sciences or related fields with background in population genetics, quantitative genetics, computational biology or equivalent. The candidate should have strong interest in plants and evolutionary questions. Experience with genomic data analysis is a plus and computational skills (e.g., basic knowledge in bash, R or Python) or willingness to learn is highly desired.

The intended start date is January 1st 2021 and the position is available for up to 3 years at the pay scale for the German public sector (65% TV-L 13). Please apply online at: https://jobportal.uni-koeln.de including a letter describing your interests and motivation for the open position, CV, and con-

tact information of at least two referees . Details at https://bewerbungsmanagement.uni-koeln.de/-ausschreibung/renderFile/215?propertyName=flyer_en The University of Cologne promotes equal opportunities and diversity in its employment relations. Women are expressly encouraged to apply and given priority in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz 'V LGG NRW). We expressly welcome applications from individuals with severe disabilities or people of equivalent status. Severely disabled applicants of equal merit and qualifications will be given priority.

Best regards

Markus Stetter

Markus Stetter <m.stetter@uni-koeln.de>

CologneU PlantEvolutionaryGenetics

A PhD position is available in the research group of Prof. Juliette de Meaux at the University of Cologne. The PhD student will investigate the Genetics of Arabis Floodplain Species. The lab has recently discovered that several Arabis species are present in floodplain meadows along the Rhine, Danube and Elb rivers. Phenotypic studies have shown that these species differ in various traits affecting their ability to cope with abiotic stress and competition. For this project, the PhD candidate will use quantitative genetics and transcriptomics approaches to determine the genetic basis of these differences. The PhD candidate will acquire a broad array of skills ranging from genomics to molecular genetics and ecology, and develop a solid basis in— experimental design, data management and analysis.

The applicant must hold a Master degree in Biology, with expertise in plant genetics and quantitative biology. This position is open to applicants of all nationalities but the usual language in the lab is English. Applications or questions regarding the position should be sent by mail to jdemeaux@uni-koeln.de, with the following subject line - PhD application Floodplain species - de Meaux lab. A letter of motivation, a CV and the contact to at least 2 referees should be provided, all in a single pdf file.— Revision of applications will begin on Sept 15th and continue until the position is filled. Funding is for 3-4 years starting in Jan 2021. For more information on our lab and research visit our website http://www.botanik.uni-koeln.de/1146.html Interested students currently completing their Master thesis are encouraged to informally contact the PI because the starting date can be adjusted.

Cologne is Germany's vibrant Metropolis on the Rhine. The city is well known for its wild carnival, its famous Kölsch beer, its Cathedral and its vivid contemporary art and musical scene. Cologne is the fourth biggest city in Germany with over a million inhabitants from all over the world and an interesting mix of restored historic buildings and modern post-war architecture. Most importantly, Cologne University is one of the oldest and largest Universities in the Country. Our research group is hosted at the Biological Center of the University of Cologne and associated to the Excellence Research Cluster CEPLAS (http://ceplas.eu/de/), which fosters active interactions between plant scientists of the Universities of Cologne, Düsseldorf and the Max Planck Institute of Plant Breeding Research. In this context, our PhD students are assured to start their scientific career in a world-class scientific environment.

Juliette de Meaux <jdemeaux@uni-koeln.de>

ColoradoStateU MolecularEvolution

The Sloan Lab at Colorado State University is recruiting a student to join our Ph.D. program beginning in the Fall of 2021. Our lab studies molecular evolution, with a particular focus on cytonuclear interactions and mutation rate evolution in plant systems. We are looking for a motivated researcher who is enthusiastic about contributing to a positive and diverse intellectual environment. The student will be encouraged to develop an independent dissertation topic that aligns with general research themes in the lab and/or ongoing funded projects.

Students can learn about our research at our lab website: https://sites.google.com/site/danielbsloan/- Depending on their interests, prospective students may apply to our graduate programs in Biological Science (https://www.biology.colostate.edu/apply-to-biology-graduate-program/), Cell and Molecular Biology (https://cmb.colostate.edu/admissions/), or Ecology (https://ecology.colostate.edu/apply/). Application deadlines are either December 1 or January 1 depending on the program. Prior to applying, prospective students are strongly encouraged to contact Dan (dbsloan@rams.colostate.edu) with a CV/Resume and brief

description of their interests in grad school and the Sloan Lab.

Dan Sloan Associate Professor Department of Biology Colorado State University https://sites.google.com/site/danielbsloan/ dbsloan@rams.colostate.edu

DanishTechU Bioinformatics

PhD Scholarship in Bioinformatics

DTU Health Tech seeks qualified candidates for a PhD position in bioinformatics with apotential start date around June 2021.

More specifically, the candidate will develop algorithms and computational methods to deal with the analysis of large datasets from modern and ancient sources. The bioinformatics section of DTU Health Tech performs research in the areas of different metagenomics, machine learning, cancer genomics and population genomics. Additional information should be obtained by contacting the potential main supervisor directly.

Current bioinformatics algorithms and software are often ill-equipped to deal with DNA extracted from fossils. This ancient DNA shows high levels of fragmentation and accumulated chemical damage. Furthermore, recently developed computational methodologies applied to ancient DNA do not scale to hundreds of samples. Fortunately, several problems pertaining to ancient DNA can be described in a maximum-likelihood framework and computer science techniques can help us to solve such numerical problems efficiently via machine learning, numerical algorithms and data structures. The overall aim of this project is to develop the next generation of algorithms and software applied to DNA extract from fossils and forensic samples

Qualifications

In terms of education, candidates should have a two-year master's degree (120 ECTS points) or a similar degree with an academic level equivalent to a two-year master's degree, ideally in computer science, mathematics or biological science with a focus on quantitative and mathematical aspects.

More specifically the candidate should ideally have the following qualifications:

Proficiency in C/C++ or Java or similar (C/C++ is preferred)

Knowledge of a scripting language like Python or Perl or similar

Ability to work in a UNIX environment, ideally in a high-performance computing environment

Thorough understanding of basic algorithms and data structures used in computer science

Knowledge of probabilities and statistics

Firm grasp of first-year university mathematics (differential calculus/linear algebra)

Experience in bioinformatics and knowledge of genomics are a plus

Expertise in next-generation sequencing data generation and processing are also a plus

The language of communication at DTU is English.

Approval and Enrolment

The scholarship for the PhD degree is subject to academic approval, and the candidate will be enrolled in one of the general degree programmes at DTU. For information about our enrolment requirements and the general planning of the PhD study programme, please see the DTU PhD Guide (http://www.dtu.dk/english/Education/PhD/Rules/PhDguide)

We offer

DTU is a leading technical university globally recognized for the excellence of its research, education, innovation and scientific advice. We offer a rewarding and challenging job in an international environment. We strive for academic excellence in an environment characterized by collegial respect and academic freedom tempered by responsibility.

Salary and appointment terms

The appointment will be based on the collective agreement with the Danish Confederation of Professional Associations. The allowance will be agreed upon with the relevant union. The period of employment is 3 years.

You can read more about careerpaths at DTU here. (http://www.dtu.dk/english/about/job-and-career/working-at-dtu/career-paths)

Further information

Further information may be obtained from Prof. Gabriel Renaud at: gabre [at] dtu.dk

You can read more about bioinformatics research at DTU Health Tech at Sectionfor Bioinformatics. (http://www.healthtech.dtu.dk/english/Research/Research-Sections/Section-Bioinformatics)

Application

Please submit your online application no later than

1 January 2021 (local time). Apply online at www.career.dtu.dk (http://www.career.dtu.dk).

Applications must be submitted as one PDF file containing all materials to be given consideration. To apply, please open the link "Apply online", fill out the online application form, and attach all your materials in English in one PDF file. The file must include:

A letter motivating the application (cover letter)

Curriculum vitae

Grade transcripts and BSc/MSc diploma

Excel sheet with translation of grades to the Danish grading system (see guidelines and Excel spreadsheet here)(http://www.dtu.dk/english/Education/-phd/Applicant/Pre_acceptance-1-)

Incomplete applications will not be considered. Candidates may apply

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

EBI Cambridge UK EvolutionaryGenomicAnalysis

We have a fully funded PhD position available in the Goldman Group, EMBL-European Bioinformatics Institute, Cambridge, UK, applications open now and starting in October 2021 (or earlier by agreement).

The topic of research is quite open across our varied interests: see below, and explore the Group's and Institute's work via the web pages, starting at https://-www.ebi.ac.uk/research/eipp/topics . I also have many colleagues at EBI recruiting in the same round (see link above), and other colleagues across the 5 other sites of our parent organisation too (see https://www.embl.de/-training/eipp/application/index.html).

Applications are through the online system only, but if you have questions then please get in touch via ROffice@ebi.ac.uk.

For those of you have moved beyond PhD studies, please share this message with promising undergrads and Masters students and share it with your colleagues.

Thanks,

Nick Goldman

//

Goldman research group

Evolutionary tools for genomic analysis

The Goldman group develops new mathematical models, data analysis algorithms and statistical methods for studying genomes and genome evolution. We provide these methods via stand-alone software and web services, and apply them to biological questions of interest.

For the studentship on offer in 2021, we are interested in recruiting a student with strong mathematical or computational skills. Possible projects include:

* phylogenetics of SARS-CoV-2: the rapid production of genome sequence data from thousands of coronavirus samples has strained our analysis techniques to their limits [1]. This project would investigate ways in bringing the most powerful evolutionary analysis methods to the most challenging data sets like these.

* sequence alignment: recent work in our Group [2] has led to advances in the accuracy and speed of evolutionary sequence alignment, a prerequisite for almost all comparative genome sequence analysis. This project would study ways to develop this work further, in particular towards a multiple sequence alignment method.

* machine learning in evolutionary analysis of genome sequences: our Group is investigating the use of modern machine learning (ML) techniques in the comparative analysis of sequence data to help find the fingerprints of natural selection in genome data. Other topics are possible too, and prospective candidates are encouraged to look at the full breadth of our research interests, e.g. as indicated by our recent publications [3].

1. https://virological.org/t/issues-with-sars-cov-2-sequencing-data/473 2. https://academic.oup.com/-sysbio/advance-article/doi/10.1093/sysbio/syaa050/-5870444 3. https://www.ebi.ac.uk/research/goldman/-publications //

Nick Goldman http://www.ebi.ac.uk/research/goldman European Molecular Biology Laboratory European Bioinformatics Institute Wellcome Genome Campus, Hinxton, Cambridge CB10 1SD, UK

It suits me to answer and send emails out of normal working hours. This does not mean I expect responses out of normal working hours.

Nick Goldman <goldman@ebi.ac.uk>

FloridaInternationalU EvolutionaryBiology

Are you interested in studying the physiology, ecology, and evolution of awesome animals? Do you like exciting fieldwork in amazing places? If so, consider joining the Cox Laboratory of Integrative Evolutionary Physiology at Florida International University in Miami, Florida.

There are currently opportunities for 2-3 PhD students in the Cox laboratory at Florida International University. These positions will be supported by a combination of research and teaching assistantships. Florida International University has a great PhD program in Biology, with excellent support for field research.

We study the evolution of diversity in nature. Our research at Florida International University integrates evolutionary biology, physiology, transcriptomics, and genomics to understand both the evolution and function of phenotypic and genetic variation at different levels of biological organization 'V between sexes, within species, and among species. We study this diversity in amazing ecosystems from the subtropics of south Florida to lowland tropical rainforest in central Panama and the arid highlands of Mexico and the American southwest. While current research in our lab generally centers around reptile and amphibian systems, I also study other animals and am open to exciting project ideas involving other organisms. Please visit the Cox laboratory website (www.coxevolab.org) for more information.

Florida International University is located in Miami, which is a great place to live and work. South Florida is a subtropical paradise with warm summers and mild (almost nonexistent) winters. Miami is only minutes away from two national parks (Biscayne National Park and Everglades National Park), countless beaches, and the Florida Keys. Miami is also a vibrant and culturally diverse city, with the accompanying access to great dining and other recreational opportunities. Finally, south Florida is an amazing place to study reptiles, amphibians, and other animals, with diverse native wildlife and dozens of abundant invasive species.

We are strongly committed to diversity, equity, and inclusion by creating an environment where scientists of all backgrounds are empowered to conduct great science. In particular, we acknowledge that science has systematically disadvantaged women, LGBTQ people, and Latinos/Latinas, Black, Indigenous, and other non-Black People of Color. We seek to contribute to rectifying this injustice through training, dialogue, and support of initiatives that will to make science more just for everyone. You are encouraged to apply if these same values are also important to you.

If you are interested in working in the lab, pleasecontactme by email (ccox@fiu.edu) with your CV and brief (~1 paragraph) statement of research experience and interests.Review of applicants will begin immediately and continue through October 16th.

Christian Cox <ccox@fiu.edu>

HongKong MarineAcclimation

*Acclimation and Adaptation to Environmental Change in Aquatic Organisms *

The Schunter lab is supporting application to well-funded Hong Kong Ph.D. Fellowships or HKU presidential fellowships. Through these schemes, interested candidates can apply for a Ph.D. position in Molecular Ecology in the School of Biological Sciences at the University of Hong Kong (https://www.hku.hk/). The University is a long-standing English-speaking institution and ranks as one of the top Universities in Asia.

We are looking for a curious, ambitious and enthusiastic Ph.D. student to take part in a diverse team, working on molecular mechanisms and adaptation to changing environments. *Research topics span from molecular, neuronal, and behavioural impacts of climate change to parental effects and transgenerational acclimation in fishes and other marine organisms (www.celiaschunter.com).* The lab is associated with the Swire Institute of Marine Science, also known as SWIMS (http://www.swims.hku.hk/), a beautiful research station in a remote area of the Island of Hong Kong.

The lab combines several disciplines ranging from *marine biology*, *behavior/physiology*, *ecology,* *molecular biology* to *computational biology* and prospective students should be interested in working in a cross-disciplinary environment. Generally, projects start with fieldwork or aquarium experiments with measurements of e.g. behavior or other physiological traits, followed by molecular lab work to extract molecules of interest (e.g. DNA, RNA or proteins). Most projects are based on next-generation sequencing, subsequent bioinformatic

analyses, and writeup into scientific articles. The lab maintains long-standing international collaborations and travel might be required.

Additional requirements:

- Willingness to work in a highly international and collaborative environment - If no previous experience, the student must be eager to learn bioinformatics

- Willingness to work in aquarium systems and/or fieldwork in a marine environment.

Hong Kong Ph.D. fellowships (HK$26,600 monthly plus travel allowance) as well the University of Hong Kong Presidential fellowships (includes research money also) are competitive and require high GPAs but come with a range of benefits. You can find more information about these fellowships here: https://www.gradsch.hku.hk/gradsch/-prospective-students/scholarship-funding-and-fees .The application deadline is the 1st of December.

Information about the Ph.D. programme, in general, can be found here https://www.gradsch.hku.hk/gradsch/ Interested candidates should send their CV, a cover letter summarizing research interests and contact information for two references to Dr. Celia Schunter (schunter@hku.hk) no later than the 20th of October to account for enough time to write a proposal for the application deadline.

Celia Schunter <celiaschunter@gmail.com>

ImperialCollegeLondon EvolutionaryEcology

Hello,

I have a position open in my lab, which is described below. Please note that it's open to anyone from any country.

Understanding how species' ranges change and evolve is a long-standing problem in ecology, evolution, and conservation. It is often hypothesised that clades with rapidly evolving traits can evolve to adapt to changing climate and minimise competition, but testing such hypotheses has proved challenging. This studentship provides the opportunity to use global trait and distribution datasets our lab has collated (e.g., https://-www.biorxiv.org/content/10.1101/823930v1.full) to test fundamental questions about the ecology and evolution of species' distributions. You will have the opportunity to apply methods our lab has developed (e.g., https://onlinelibrary.wiley.com/doi/abs/10.1111/-geb.12938) to test fundamental eco-evolutionary questions, and then develop your own hypotheses and methods following your own interests. In our lab we work with policy-makers and conservation organisations (e.g., https://link.springer.com/chapter/10.1007/978-3-319-93145-6_2), and you will have the opportunity to do so if you wish.

To find out more about this project, please explore our lab's website (http://pearselab.com/) and, if you're interested in applying, please send an email with a brief (one paragraph) overview of research interests and a CV to will.pearse@imperial.ac.uk. This project is competition-funded through Imperial College London's President's PhD Scholarships program (https://www.imperial.ac.uk/study/pg/fees-and-funding/scholarships/presidents-phd-scholarships/), whose first deadline is the 6th of November 2020. Please contact me as quickly as possible so that I can decide if your application is strong enough for us to work together on your application for the program.

Thanks,

Will Pearse

Measuring phylogenetic structure? Try install.packages('pez')

Will Pearse (pearselab.com) Senior Lecturer, Imperial College London Skype: will.pearse

Will Pearse <will.pearse@imperial.ac.uk>

JagiellonianU ExperimentalEvolution

PhD position in evolutionary and biomedical physiology at the Jagiellonian University, in a project:

Experimental evolution of the thrifty and spendthrift genotypes, and its consequence for susceptibility to adverse effects of "Western diet": insights from a selection experiment on bank voles

The project is based on a unique experimental evolution model system, with lines of a common rodent, the bank vole, selected in three distinct directions: http://www.eko.uj.edu.pl/en_GB/zespol-fizjologii-ewolucyjnej/badania. We will answer the ques-

tion how the selection for high performance under the conditions of unlimited vs restricted energy sources affects vulnerability of animals to adverse effects of the Western diet.

Conditions of employment: A warranted scholarship for 48 months of 5000 PLN / month (gross), equivalent to mean gross income in Poland. Formal requirements

§MSc in life science (biology, biotechnology, ecology, evolution, or related; effective on 30.09.2020),

§admission in the International PhD Biology program at the Jagiellonian University effective on 1.10.2020 (https://science.phd.uj.edu.pl/).

Merit requirements

§Good communication skills, good level of spoken and written English;

§Previous experience in molecular or biochemical laboratory as well as working with terrestrial vertebrates (preferably rodents);

§Good skills in data processing and statistical analyses;

§Achievements such as publications or conference presentations are considered advantageous. Preliminary enquiries: email to the principal investigator - PaweÂ³ Koteja (pawel.koteja@uj.edu.pl)

Detailed information about the enrollment procedure and other formal issues - see here:

https://wb.uj.edu.pl/wydzial/aktualnosci/-ogloszenia-konkursowe/-/journal_content/-56_INSTANCE_NepRLepShInQ/41643/145578301
The application should be sent by email (pawel.koteja@uj.edu.pl) by 13.09.2020 (the term will be automatically prolonged if needed).

The applications will be considered by the selection committee according to the regulations of the PhD School and the regulations of scientific scholarships in research projects financed by the National Science Centre, Poland (https://www.ncn.gov.pl/sites/default/files/pliki/-2019_09_16_koszty_w_projektach_NCN.pdf) and the general regulations of the PhD in Biology Programme: (https://science.phd.uj.edu.pl/en_GB/rekrutacja/-rekrutacja-2020/2021/phd-programme-in-biology).

The pre-selected candidates will be invited for interviews (scheduled for 21-28 August 2020). The decision of acceptance will be made by 31 August 2020.

Contact person: PaweÂ³ Koteja (pawel.koteja@uj.edu.pl)

The Evolutionary Physiology Research Team http://www.eko.uj.edu.pl/en_GB/zespol-fizjologii-ewolucyjnej/badania Institute of Environmental Sciences Jagiellonian University 7 Gronostajowa Street, 30-387 Kraków, Poland e-mail: pawel.koteja@uj.edu.pl office phone: +48 12664 5209 skype: pkoteja ORCID: 0000-0003-0077-4957 ResearcherID: O-4039-2015 Scopus Author ID: 6603751464

PaweÂ³ Koteja <pawel.koteja@uj.edu.pl>

JagiellonianU ThermalAdaptation

We are seeking for a PhD student for a project: When temperature makes them to panic? - the effect of optimal vs. stressful thermal conditions on the repeatability of the performance tests in ectotherms

to be realized in the Institute of Environmental Sciences, Jagiellonian University, Krakow, Poland (http://www.eko.uj.edu.pl/en_GB/).

Principal Investigator: Aleksandra Walczyńska aleksandra.walczynska@uj.edu.pl

Financial conditions: A National Science Centre stipend (4000 PLN/month gross) is available for one student for 2 years, followed by 2 years of the stipend offered through the regular PhD program of the Jagiellonian University.

Requirements:

1) Formal conditions:

* MSc degree in a relevant field of life science, such as biology, biotechnology, biological sciences, achieved by the time of enrollment.

* Admission to the “PhD Biology program” in the PhD School at Jagiellonian University, effective on 3.11.2020 (https://science.phd.uj.edu.pl/).

2) Specific merit requirements for the project include:

* strong English language; * experience with the laboratory studies in ecology or physiology; * experience with data processing and statistical analyses; * scientific achievements such as publications or attendance in conferences are considered advantageous.

Scope of work: The PhD student will be involved in a three-stage study in which the mechanisms of response to optimal and stressful thermo-oxygenic conditions will be examined at the organismal and mitochondrial levels. The study will be conducted in the Institute of Environmental Sciences, Jagiellonian University, with Lecane inermis rotifer as a model organism. The project includes a three-month visit of a PhD student at the Uni-

versity of Rostock where a student will get acquainted with the cutting-edge methodology of assessing the mitochondrial efficiency under stress, supervised by Professor Inna Sokolova.

The research description: The study focuses on the mechanisms and the evolutionary causes of existence of the temperature-size rule (TSR). According to this very common rule in nature, organisms grow smaller at higher (more favorable) temperature, than in lower (less favorable) temperature. This pattern is puzzling from the evolutionary point of view, because one should expect that in more favorable conditions organisms will grow larger to have more progeny. Unless there is another, accompanying factor, driving the TSR. Currently, it is suggested that the most promising candidate for this factor is oxygen availability. It naturally decreases with increasing temperature, lowering the efficiency of oxygen transport into the mitochondria. Body size is supposed to be a simple consequence of decreasing of cell size; the simplest solution enhancing this effectiveness. We will look for the repeated patterns of response, as those of adaptive significance, in opposition to response variable among individuals, informing about the mismatch between stressful conditions and organismal response to them.

The formal application should be sent to aleksandra.walczynska@uj.edu.pl by 24 October 2020 and should include: 1) A scan of MSc diploma in biology, biotechnology or other relevant; 2) A reference letter from recognized scientist who have a first-hand knowledge of the applicant's skills and past research experience. 3) A Curriculum Vitae (maximum 2 pages) including information on relevant academic achievements, publications, awards, and relevant experience and training. This document should also include identification information (PESEL number for candidates from Poland, or passport number for candidates from abroad); 4) A motivation letter (maximum 2 pages), explaining how the applicant's background and research interests make them a suitable candidate for the position; 5) Documents confirming the most important academic achievements declared in CV, particularly pdfs of publications; 6) Transcript of grades: diploma supplement, or the official transcript of grades, or another document listing completed courses and grades. Information about grading scale must be included; 7) A short description of studies included in the master thesis (maximum 1 page) and a thesis pdf version.

The applications will be considered by a selection committee according to the regulations about scientific scholarships in research projects financed by the National Science Centre, Poland: https://www.ncn.gov.pl/sites/default/files/pliki/-uchwaly-rady/2019/uchwala25_2019-zal1_ang.pdf (English)

In case of any questions, please contact aleksandra.walczynska@uj.edu.pl

Aleksandra Walczyñska Instytut Nauk o Ârodowisku Uniwersytet Jagiellońnski Gronostajowa 7

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KielU AntibioticResistanceEvolution

PhD Position on Antibiotic Resistance Evolution

The position will be based in the Schulenburg group, located at Kiel University in Northern Germany. The position is is available from 1. January 2021 (or soon afterwards) until 30. September 2024. Deadline for applications: 18th October 2020

Area of work: Analysis of antibiotic resistance evolution using experimental evolution, genome analysis, and/or functional genetics. The PhD project will be on the dynamics and/or genetics of antibiotic resistance evolution, taking into account the importance of negative hysteresis and/or evolved collateral sensitivity to minimize resistance evolution. For further information, see our publications by Roemhild et al. 2018 PNAS, Barbosa et al. 2017 Mol Biol Evol, or Barbosa et al. 2019 eLife (See also: https://www.uni-kiel.de/zoologie/evoecogen/-). The PhD project is part of the Leibniz Science Campus "Evolutionary Medicine of the Lung" (EvoLUNG; http://evolung.fz-borstel.de/) and thus provides many opportunities for interactions with PhD students and postdocs working on related topics.

Expectations and Requirements: Master of Science or equivalent degree with a focus on evolutionary biology or microbiology. Competences and experience in microbiological techniques and statistical data analysis. Ideally competences and experiences in the performance of evolution experiments, and/or bacterial genome sequence analysis, and/or bacterial functional genetic analysis. High competence in English and writing of manuscripts. We are looking for someone with creative ideas, en-

thusiasm for research, and the ability of performing large-scale experiments.

Kiel University considers itself to be a modern and cosmopolitan employer. We welcome your application regardless of age, gender, cultural and social background, religion, ideology, disa-bility or sexual identity. We promote equality of the sexes.

Women are given priority in case of equal qualifications and professional performance.

Kiel University is committed to the employment of people with disabilities: Applications from severely disabled persons and persons of equal status will be given preferential consideration in case of suitable qualification.

We expressly welcome applications from people with a migration background.

Deadline for applications is 18th October 2020. Applications should include a motivation letter (max. 2 pages long), CV, publication list, names and contact details of two referees (who are familiar with the applicant's work), and copies of certificates (only MSc). Applications should be sent as a single pdf-document by email to: Prof. Dr. Hinrich Schulenburg, hschulenburg@zoologie.uni-kiel.de

Hinrich Schulenburg <hschulenburg@zoologie.uni-kiel.de>

KielU ComputationalEvolutionaryMicrobiology

The Genomic Microbiology Group of Prof. Tal Dagan in the Institute of Microbiology at Kiel University, Germany, invites applications for a:

PhD position in computational evolutionary microbiology Application deadline is October 10th 2020. The Genomic Microbiology Group research interests are focused on microbial genome evolution with an emphasis on the study of horizontal DNA transfer. In our research we use both computational and experimental approaches (see www.uni-kiel.de/genomik). We offer opportunities to develop an independent research project within the group research focus. The working language of the group is English.

Candidate qualifications: (1) Master of Science degree in Molecular Evolution / Microbiology / Bioinformatics or related fields. (2) Knowledge and experience in the analysis of genomic data. Any of following expertise is an advantage: programming, biostatistics, phylogenetics, comparative genomics. (3) Good oral and written communication skills in English. (4) Motivation to learn and research topics in basic science. The position is offered for 3 years with a possibility for extension. The project is within the Leibniz ScienceCampus EvoLung (http://evolung.fz-borstel.de/) and is integrated with the IMPRS graduate school for evolutionary biology (https://www.evolbio.mpg.de/imprs). For enquiries regarding the position and research topic please contact Prof. Tal Dagan: tdagan@ifam.uni-kiel.de. Applications should be submitted by email to Prof. Tal Dagan as a single PDF and include: (1) a letter of motivation (max 2 pages, Arial 11, line spacing 1.15), (2) CV, (3) Master certificate. Please use 'EvoLung PhD application [your name]' as a subject.

Read here how to write a motivation letter: https://www.studying-in-germany.org/motivational-letter-university-admission-germany/ Well-motivated and highly-qualified students from all countries are welcome to apply. We are looking forward to your application for a PhD fellowship in the beautiful landscape of Northern Germany.

"tdagan@ifam.uni-kiel.de" <tdagan@ifam.uni-kiel.de>

LiverpoolJohnMooresU BehaviouralEvolution

The School of Biological and Environmental Sciences of Liverpool John Moores University is looking for candidates to put up for a competitive internal award (https://www.ljmu.ac.uk/research/phd-scholarships). If successful, the scholarship will cover all applicable fees for 3 years including a stipend at the standard UK rate as well as additional research funding. The goal of the project is to advance the analysis of a stereotyped response of larval zebrafish to hydrodynamic fields and link the ensuing statistical behavioural analysis to neurotransmitter systems. The project will set up the basis for new ways of studying attentional processes.

Supervisory team:

Rodrigo De Marco (Lead Supervisor), School of Biological and Environmental Sciences, Faculty of Science, LJMU;

Francis McGlone, School of Psychology, Faculty of Health, LJMU;

Florian Engert, Department of Molecular and Cellu-

lar Biology, Harvard University. Candidates should be highly motivated and should have (or expect to complete soon) a master's degree in biology, physics or a comparable qualification. A passion for mastering challenges in data analysis is utterly important. Your application: Applications should include a cover letter, CV and contact information of 2 referees via e-mail as a single PDF file with "LJMU PhD scholarship scheme" in the subject line to R.J.DeMarco@ljmu.ac.uk until 15th September 2020. At LJMU we strive for solidarity, inclusion and equality. We welcome applications from all.

Liverpool John Moores University School of Biological and Environmental Sciences

Faculty of Science

Liverpool

"Zajitschek, Susanne" <S.R.Zajitschek@ljmu.ac.uk>

LMUMunich GenomicsSpeciesIdentificationSponges

Predoctoral Research Associate position in genomics of species identification in sponges (Phylum Porifera).

We invite applications for a 36-month (predoctoral) Research Associate position in the project "SpongeTaxonOMICs v2" funded by the German Research Foundation (Deutsche Forschungsgemeinschaft, DFG) within the framework of the Priority Program SPP 1991 TaxonOMICS (www.taxon-omics.com). The project is located at the Department of Earth- and Environmental Sciences (Chair of Paleontology and Geobiology) and the GeoBio-Center of the Ludwig-Maximilians-Universität (LMU) München.

Sponges (Porifera) are difficult to identify and DNA barcoding does not reliably work for all its lineages. In this project, we aim at further developing novel species identification procedures based on target enrichment and NGS technologies. We will apply the methods developed to a very diverse and taxonomically very difficult group of demosponges, the Haplosclerida, aiming at providing reliable species distinction and delimitation procedures in this group. For this, we will use fresh and recently collected specimens from the Red Sea as well as material from museum collections, including (holo)types ("museomics"). The project will be conducted in close collaboration with Professor Grace McCormack of the National University of Ireland Galway, an internationally leading expert in haplosclerid sponges.

We are seeking a highly motivated applicant with excellent and demonstrated bioinformatics expertise, sound background in evolutionary biology, and willingness to tackle the challenging task of working with the genomes of non-model invertebrates. Previous experience in sponge biology or laboratory skills are not necessary, but beneficial. The predoctoral research associate is afforded the opportunity to pursue scientific qualification, i.e., preparation for a doctoral degree at LMU MUnich, based on the project's results. Finally, we expect the successful candidate to contribute to the lab's ongoing genome sequencing efforts, contribute to expanding the bioinformatic tools available in the lab, and collaborate with other lab members and projects.

The successful candidate will join an international and dynamic lab focussing on the geobiology and evolution of marine animals. High-performance computing infrastructure is available in the lab (LINUX cluster, Galaxy Server) as well as through the Leibniz Rechenzentrum (www.lrz.de). More information about the lab can be found at www.geobiology.eu . Requirements: M.Sc. in Biology, Bioinformatics, or a related field; demonstrated expertise and understanding of molecular evolution including phylogenetic methods, expertise in processing and analyzing next-generation sequencing data; programming skills (e.g., in commonly used bioinformatic languages such as Python and/or R, etc.) and experience working with *NIX systems. Evidence of this expertise must be provided. The working language of the group is English and therefore candidates must have excellent English language skills. German language skills are not required.. The position is available for 36 months and will be paid according to the German public service salary scheme (TV-L E13 65%).

Application: The application must include a letter of motivation, CV, PDFs of the most significant publications (or a pdf version of the master thesis if publications are not available), and contact details of 2 referees in a *single PDF*. Please send the application by email to <geobiologie@geo.lmu.de> using *SpongeTaxonOMICs.v2.YOURLASTNAME* as subject. Informal inquiries may be directed to Professor Gert Wörheide through the same email address. The application deadline is 31 October 2020.

The Department of Earth- and Environmental Sciences, Palaeontology & Geobiology of the Ludwig-Maximilians-Universität Munich offers an excellent multidisciplinary research environment, one of its particular strength being due to the close interaction between Geosciences and the Faculty of Biology in the framework of the GeoBioCenterLMU (http://www.geobio-center.uni-

muenchen.de).

The LMU Munich is the leading research university in Germany, with a more than 500-year-long tradition, and builds upon its success in the Excellence Initiative, a Germany-wide competition promoting top-level university research. Munich has been repeatedly voted Germany's most livable city and is among the Top 5 most livable cities worldwide. The LMU Munich is an Equal Opportunity/Affirmative Action Employer and has an affirmative action policy for the disabled.

Prof. Dr. Gert Wörheide MAE Department of Earth and Environmental Sciences, Paleontology & Geobiology & GeoBio-CenterLMU Ludwig-Maximilians-Universität München, and Director, Bavarian State Collections of Palaeontology and Geology

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LouisianaStateU EvolutionaryEcol

Two PhD Assistantships in evolutionary ecology at LSU

The Tan lab at the Department of Biological Sciences of Louisiana State University is seeking two PhD students to join us in the spring or fall of 2021. We use an integrative approach, including laboratory experiments, field observation, and data analysis, to explore a wide range of topics in evolutionary ecology, including eco-evolutionary dynamics, causes and consequences of biodiversity, species diversification. We are specifically looking for candidates who are interested in one of the following topics.

Adaptive radiation. High phenotypic diversity can emerge through adaptive radiation when various ecological opportunities are available. Due to their high large population size and short generation time, microbes can experience rapid adaptive radiation in a short time. We use Pseudomonas fluorescens and microbes from plant and freshwater microbiomes as the model organisms to explore the mechanisms that determine the origins and maintenance of biodiversity in microbes.

Plant-microbe interactions. Plants host diverse microbiomes. Because microbes can grow and evolve rapidly, ecological interactions, such as competition, predation, mutualism, and evolutionary changes, such as adaptation and diversification, can happen at the same time and strongly feedback on each other. We use aquatic plants and the associated microbiomes to explore the impacts of microbial eco-evolutionary dynamics on plants' morphology, physiology, and competitive fitness.

The ideal candidates for the positions are expected to be highly self-motivated, have a general interest, and some research experience in evolutionary biology, ecology, microbiology, or plant biology. Previous experience in aquatic ecology or microbiology is preferred, but not required.

Interested students can send inquiries with CV, unofficial transcripts, and a brief statement of research experience and interests to Dr. Jiaqi Tan (jtan7@lsu.edu). Students of diverse backgrounds are welcome.

Information about Dr. Tan can be found at https://jiaqitan.wixsite.com/mysite . Information about the graduate program in Biological Sciences can be found at https://www.lsu.edu/science/-biosci/graduateprogram/biosci.php . Jiaqi Tan <jtan7@lsu.edu>

MasseyU AmphibianConservation

PhD Position: Amphibian Conservation and Synthetic Biology-Australia

Call for PhD position in Amphibian Conservation and Synthetic Biology

Want to help save frogs declining from a pandemic disease? Interested in identifying genetic traits and using the latest methods in synthetic biology?

The One Health Research Group at University of Melbourne in Victoria, Australia is looking to support PhD projects to investigate advantageous genetic traits against the disease chytridiomycosis and use that knowledge and synthetic biology to increase disease resistance in declining frog species.

The project is funded through the Australian Research Council, and the PhD scholar will be advised by Drs Lee Skerratt, Tiffany Kosch, Lee Berger and members of the One Health Research Group and collaborators including Zoos Victoria. The project will be based at the Melbourne Veterinary School at the Werribee campus.

The project is focused on improving disease resilience in ecosystems using synthetic biology, but the specific

aims of the PhD research can be determined by the successful scholar. We aim to use the latest methods in synthetic biology to conserve species threatened by disease, through characterising and enhancing immunity. Emerging infectious diseases are a major threat to ecosystems and new methodologies are needed to fight them. Chytridiomycosis is the most devastating disease of vertebrates, causing population declines in over 500 amphibian species worldwide. The expected outcomes of the project are improved understanding and increased immunity of frogs to chytridiomycosis and restoration of frogs into the environment.

To be eligible, - Expertise needed: Applicants must have experience with molecular biological or biomedical research such as molecular and synthetic biology, microbiology, genetics and immunology. Skills or interest in disease, herpetology, population genetics, bioinformatics, - statistical analyses, and animal husbandry are an advantage. - Scholarship applications are competitive 'V applicants must have first- class Honours, Master'Âs by research (1 year full-time) or equivalent and an excellent academic record. Peer reviewed publications are beneficial (and required for international scholars). - Post Graduate Research Scholarships for stipends are available through University of Melbourne, for which the applicant will need to apply separately by the 31st Oct.

The project will commence in early 2021

Please submit a CV, cover letter and contact information for two referees to Assoc Prof. Lee Skerratt l.skerratt@unimelb.edu.au by 30 Sept 2020.

For more information about our research team please visit our website: https://blogs.unimelb.edu.au/one-health-research Facebook page www.facebook.com/pg/-onehealthresearchgroup Twitter @onehealthres

Tiffany A. Kosch Postdoctoral ResearchFellow

AL Rae Centre for Genetics and Breeding Massey University Hamilton, NZ 3214 Tel: +64 21 0848 2683

Email:T.Kosch@massey.ac.nz

"Kosch, Tiffany" <T.Kosch@massey.ac.nz>

NeesInst Bonn PlantEvolution

The Rheinische Friedrich-Wilhelms-Universität Bonn is an international research university with a broad spectrum of disciplines. 200 years of history, around 38,000 students, more than 6,000 employees and an excellent reputation at home and abroad: The University of Bonn is one of the most important universities in Germany and has just been awarded the title of Excellence University

In the frame of the DFG Collaborative Research Centre 1211: Earth - Evolution at the Dry Limit (https://-sfb1211.uni-koeln.de/), the University of Bonn invites applications for a

PhD position (f/m/d, 75 % TV-L E 13) in the field of plant sciences to begin on January 1st, 2021 at the Nees Institute for Plant Biodiversity. The Collaborative Research Centre "Earth - Evolution at the Dry Limit" works at the interface between landscape evolution and biological evolution, which are mutually dependent. In its second phase, CRC 1211 wants to deepen our understanding of the mutual evolutionary relationships between Earth surface processes and biota in (hyper-)arid desert systems, where both are severely limited by water availability. The successful candidate will be a member of the CRC's Integrated Research Training Group (IRTG), which aims at educating a generation of truly interdisciplinary doctoral candidates in the fields of Earth and Life Sciences, a combination of growing importance in the course of ongoing and accelerated global change. The here advertised PhD project aims at the identification of genetic mechanisms involved in the adaptation of plants to arid habitats.

Your duties: * Plant cultivation, sampling, wet-lab work, comparative transcriptomic/genomic analyses. * Participation in excursions to the Atacama Desert. * Collaboration with the international and interdisciplinary team of the CRC 1211. * Publishing and presenting results in international scientific journals and at conferences.

Your profile: * MSc or equivalent university degree in biology with a focus on plant sciences, evolution, genetics, and/or bioinformatics. * Experience in handling of Illumina/PacBio datasets and programming languages. * Excellent communication skills in English (written/oral).

We offer: * an association with a graduate school offering a structured PhD program, * a diverse and fair working environment in an international and interdisciplinary team, * extensive advanced training opportunities, * a position with state employment benefits.

The University of Bonn is committed to diversity and equal opportunities. It is certified as a family-friendly university. Its aim is to increase the proportion of women in areas where women are under-represented and to particularly promote their careers. It therefore urges women with relevant qualifications to apply. Applications are treated in accordance with the Land Equality Act. The

application of suitable people with proven severe disabilities and persons of equivalent status is particularly welcome.

The temporary position is limited to the duration of the PhD, but restricted to a maximum duration of 3 years. Starting date of the position is January 1st, 2021.

Please send your application documents (letter of motivation, CV, abstracts of BSc and MSc thesis, copies of certificates, and two letters of recommendation) by October 1st, 2020 in English and in a single PDF file to Dr. Julia Bechteler at the following e-mail address: bechteler@uni-bonn.de (subject: PhD Application CRC1211).

Julia Bechteler <bechteler@uni-bonn.de>

PurdueU AvianGenomics

Students interested in graduate school at Purdue University in Prof. Andrew DeWoody's lab are encouraged to apply for an assistantship through a (very) competitive process. Applications for admission in Spring 2021 (i.e., January 2021) are due on 15 Sept. 2020; see the URL below for more details. Personnel in the lab use evolutionary genomic approaches to advance the conservation of vertebrate species, including whales, carnivores, quail, snakes, and fishes. To the extent possible, specific projects are developed jointly by both the mentor and the mentee to appeal to mutual interests.

Purdue University in general and our lab in particular does not discriminate with regard to race, religion, color, sex, age, national origin or ancestry, marital status, parental status, sexual orientation, disability or status as a veteran. We encourage applications from all interested parties; Purdue University is an Affirmative Action institution. For more information, please contact Andrew via email (dewoody@purdue.edu).

https://ag.purdue.edu/fnr/Pages/-GraduateStudiesFNR.aspx https://-www.facebook.com/DeWoodyLab de-woody@purdue.edu

SGN Muencheberg Pyrophob

Job announcement ref. #09-20004

For more than 200 years the Senckenberg Gesellschaft fÂÂ¹r Naturforschung (SGN) represents one of the leading institutions investigating nature and its diversity. Currently, Senckenberg employs scientists from more than 40 countries across 11 locations in Germany which conduct research in the fields of biodiversity, earth system analysis and climate change. The head office of Senckenberg is Frankfurt am Main. The Senckenberg Gesellschaft fÂÂ¹r Naturforschung intends to fill at the Senckenberg German Entomological Institute (SDEI) located in MÂÂ¹ncheberg, near Berlin, starting 01 January 2021, the position of a

PhD position (m/f/d) in the project Pyrophob (75 %)

The project ÂÂºPyrophobÂÂ± is a joint research project of different universities and research institutes in the state of Brandenburg which is investigating the development of future forests with higher resilience to fires and climate change. The SDEI has taken over the task of investigating moth communities in this project.

Your tasks:

* Assessing the moth communities (Macrolepidoptera) with light trapping in different regenerating forest areas after extensive fires in the central part of Brandenburg (south of Berlin). * Determining and analyzing the trapped material, followed by publication of the results * Strong cooperation with the other working groups in the Pyrophob consortium * The will to complete a PhD is assumed

Your profile:

* A master degree in biology/zoology or a related discipline * Interest in intensively working with moths; a firm taxonomic knowledge would be helpful * A strong command in statistics * A very good command of English, knowledge of German is desired * Car driving license * Flexibility, team compatibility and skills in communication are requested. A high degree of commitment and sense of responsibility are essential.

What is awaiting you?

* An attractive and challenging position in a research institution of worldwide standing * The possibility to conduct a PhD thesis * A three years contract with the option of an extension for one more year * A salary

that reflects the tasks and responsibilities of the position based on the collective agreement for public service in the state of Brandenburg (TV-L E 13, 75 %) * Self-directed action in a motivated and professional environment.

The Senckenberg Research Institutes support equal opportunity of men and women and therefore strongly invite women to apply. Equally qualified handicapped applicants will be given preference. The place of employment is MÂÂ¹ncheberg, Germany.

You would like to apply?

Please send your application documents (CV, complete academic certificates and credentials, references and a letter of motivation), mentioning the reference of this job announcement (ref. #09- 20004) before October 4th, 2020 by e-mail (attachment in a single pdf document) to: Senckenberg Gesellschaft fÂÂ¹r Naturforschung Senckenberganlage 25 60325 Frankfurt am Main

E-Mail: recruiting@senckenberg.de

For more information, please contact Prof. Dr. Thomas Schmitt, Thomas.Schmitt@senckenberg.de or + 49 33432 73698 - 3701.

– Dr. Martin Wiemers Head of Ecology Senckenberg Deutsches Entomologisches Institut Eberswalder Str. 90 15374 MÂÂ¹ncheberg Germany Tel. +49 33432 73698-3740 e-mail: martin.wiemers@senckenberg.de www.senckenberg.de private: Am Diebsgraben 1A 15374 MÂÂ¹ncheberg Germany Tel. +49 33432 734795 Mobile +49 157 85401271 Fax +49 3212 6968883 e-mail: martin@wiemers1.de

StockholmU AvianPopulationGenomics

PhD position in Systematics and Evolutionary Research at Stockholm University, with a focus on the evolutionary importance of interspecific gene flow among various avian systems from Papua New Guinea

A fully supported 4-year PhD position is available under the joint supervision of Dr. Martin Irestedt (Naturhistoriska Riksmuseet), Dr. Knud Jonsson (Natural History Museum of Denmark) and Dr. Mozes Blom (Museum für Naturkunde Berlin). The prospective candidate will be mostly based in Stockholm, but frequent visits to Berlin and Copenhagen will be encouraged. The primary investigators are evolutionary biologists by training, with a keen interest in the evolution of avian and non-avian reptiles. For more information, see https://www.researchgate.net/-profile/Martin_Irestedt, https://snm.ku.dk/-english/staffsnm/research-and-collections/?pure=-en%2Fpersons%2Fknud-andreas-joensson(d1490c46-b4b8-4e75-b2cc-0047d8ddaeb5).html <https://-snm.ku.dk/english/staffsnm/research-and-collections/-?pure=en/persons/knud-andreas-joensson(d1490c46-b4b8-4e75-b2cc-0047d8ddaeb5).html> and https://-mozesblom.com . The deadline to apply is September 30, 2020.

Project description. The objective of this project is to study the evolutionary mechanisms that lead to incipient diversification and species persistence using genomic data. The project focuses on avian species complexes from New Guinea; honeyeaters and birds-of-paradise. In these study groups there are examples of sister taxa that hybridize in certain part of their ranges but not in others and species boundaries could be contested since birds in regions where sister taxa meet exhibit various degrees of intermediate characters. These avian systems are ideal to study genetic mechanisms that may impede hybridization, applying species delimitation methods on a genomic scale and link hybridization patterns with environmental change over time.

The genomic data will be generated largely from museum samples and the project is thus a good opportunity to showcase how museum genomics and organismal biology can be used to study hybridization and species delimitation in taxonomically challenging groups.

The project is part on an ongoing project on evolutionary genomics in birds-of-paradise led by the Swedish Museum of Natural History, as well as a project on avian dispersal, differentiation and speciation along elevational gradients and across barriers in New Guinea led by the Natural History Museum of Denmark, and both projects include extensive collaboration with the Museum für Naturkunde in Berlin.

Qualifications. In order to join our team, we are looking for someone with a background in biology, life sciences, genetics, bioinformatics, or related subjects. Applicants should have knowledge and skills pertaining to evolutionary biology, phylo- and population genomics and bioinformatics. Equally important, we are looking for a creative, curious and motivated person with excellent communication and interpersonal skills. No fieldwork is expected to be part of the project.

Position. The position is primarily based at the Department of Bioinformatics and Genetics, at the Naturhistoriska Riksmuseet in Stockholm. We offer a friendly working environment, access to professional training in

both project related as well as soft skills and access to the scientific research infrastructure (e.g. High-Performance Computing Infrastructure, Wet-labs etc) needed to successfully complete this project. Moreover, other working groups within the department include Fredrik Ronquist, Love Dalen and Per Ericsson. Additional support can be obtained from the Museum für Naturkunde Berlin and includes access to collections, working space and the opportunity to collaborate with research groups throughout both museums. Finally, in line with the Scandinavian tradition, we strongly encourage a healthy work-life balance and both Stockholm and Berlin have plenty of attractive sights, activities and possibilities to relax.

Application. Incoming applications will be considered until the 30th of September or until the position is filled. To apply, please navigate to the application portal of Stockholm University and submit all requested documentation. For more information see: https://www.su.se/english/about/working-at-su/-phd?rmpage=job&rmjob=12887&rmlang=UK For any queries with regards to this position feel free to contact us.

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StockholmU EvolutionaryGenomics

PhD student position at Stockholm University

We have an opening for a PhD student in Ecology and Evolution at Stockholm University, as part of the Swedish Research Council funded project "The role of structural variation for the origin and evolution of a classic supergene". Within this project, the student will generate and analyse comparative genomic and population genomic data from wild flaxseed species (Linum) to test hypotheses on the origin and evolution of the distyly supergene.

We are looking for applicants with a strong background and interest in evolutionary genetics, and a desire to work with genomic analyses. The position is for 4 years, and the deadline to apply is September 28, 2020. The PhD student will be based in the research group of Dr. Tanja Slotte (http://tanjaslottelab.se).

Full ad and information on how to apply at the Stockholm University website: https://bit.ly/2QX31SL For more information, please contact Dr. Tanja Slotte directly at tanja.slotte@su.se.

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Tanja Slotte PhD, Associate Professor SciLifeLab Fellow Department of Ecology, Environment and Plant Sciences (DEEP) Stockholm University 106 91 Stockholm

E-mail: tanja.slotte@su.se

StonyBrookU EvolutionaryBiol

GRADUATE OPPORTUNITIES IN ECOLOGY AND EVOLUTIONARY BIOLOGY

The Graduate Program in Ecology and Evolution at Stony Brook University is recruiting doctoral and master's level graduate students for Fall 2021.

The department has a long and distinguished history, being one of the first of its kind in the US. It currently has a productive and diverse faculty working on a broad array of questions involving humans and primates, microbes, plants, vertebrate and invertebrate animals and whole ecosystems. Field locales span the globe from the old and new world tropics to the Arctic and Antarctic polar regions, as well as the uplands, wetlands and coastal areas of Long Island and nearby New York City. Being within a train ride to New York City, Stony Brook is a diverse campus, and we are implementing programs to build an even more diverse program in the future.

Upon admission, PhD students are guaranteed teaching assistantships, with additional support available through fellowships and research assistantships, as they become available. The deadlines for applications are *Dec. 1, 2020 for the PhD* program. The preferred deadline for the *MA **program is January 15, 2021*, but applications are considered on a rolling basis until *April 15, 2021*. GREs are not required for applications to Stony Brook University as of this year. Application fees may be forgiven for applicants that meet specific guidelines. Please contact us for more information.

Below is a listing of current local program faculty to whom questions can be directed. It is highly recommended < https://www.stonybrook.edu/commcms/-ecoevo/_program/application.php > that PhD applicants contact faculty and identify potential advisors before submitting an application. Faculty are more

than willing to entertain questions about the program generally and about their own labs and research. Not all will be taking students, but they will all gladly discuss what the program and the locale. For questions or assistance with the application process please e-mail our Graduate Program Coordinator, Melissa Cohen melissa.j.cohen@stonybrook.edu. More information about applying can be found here.

https://www.stonybrook.edu/commcms/ecoevo/-_program/application.php DEPARTMENTAL FACULTY

H. Resit Akcakaya - Population and conservation ecology http://life.bio.sunysb.edu/ee/akcakayalab/ Stephen B. Baines - Ecosystem ecology and biogeochemistry http:/-/life.bio.sunysb.edu/ee/baineslab/ Rafael D'Andrea - Community and Theoretical Ecology

https://sites.google.com/view/rafaeldandrea/home Liliana M. Dávalos - Vertebrate phylogenetics, biogeography and conservation http://lmdavalos.net/lab/-The_Lab.html Walter F. Eanes - Evolutionary genetics of Drosophila http://life.bio.sunysb.edu/ee/eaneslab/ Jessica Gurevitch - Research synthesis, plant population and invasion ecology https://gurevitchlab.weebly.com/ Jesse D. Hollister - Plant evolutionary genomics and epigenetics https://genomeevolution.wordpress.com/ Jeffrey S. Levinton - Marine ecology and paleobiology http://life.bio.sunysb.edu/marinebio/-levinton.main.html Heather J. Lynch - Quantitative ecology and conservation biology https://lynchlab.com/ Ross H. Nehm - Science education, evolution education, cognition https://www.stonybrook.edu/commcms/-ecoevo/people/faculty_pages/nehm.html Dianna K. Padilla - Marine and freshwater ecology, conservation and invasion biology http://life.bio.sunysb.edu/ee/-padillalab/ Joshua Rest - Evolutionary genomics http://life.bio.sunysb.edu/ee/restlab/Home.html Tara M. Smiley - Paleoecology and biogeography https:/-/www.tarasmiley.com Pascal Title - macroevolution and spatial macroecology https://www.pascaltitle.com Robert W. Thacker- Systematics, phylogenetics, and ecology https://www.stonybrook.edu/commcms/-ecoevo/people/faculty_pages/thacker.html John R. True - Evolutionary developmental biology

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TrinityC Dublin GrassFungiPhylogeny

The project will have quite a bit of evolution/systematics in it. I'm a systematist. It will use DNA barcoding and phylogenetic approaches to characterise fungi in grasses.

Trevor

PhD Studentship Opportunity in Botany at Trinity College Dublin Ireland

Project: Fungal endophyte discovery and characterisation for sustainable barley production

We are seeking an enthusiastic and highly motivated student for a 4-year, DAFM-funded (Department of Agriculture, Food and the Marine) project. The project is supervised by Trevor Hodkinson and Brian Murphy (TCD) and a collaboration with PIs at UCD, NUI Galway, and Teagasc and aims to discover new fungal endophytes through DNA barcoding and phylogenetic approaches and then to develop and test their efficacy as biofertilisers and biopesticides (against aphid-borne disease and Ramularia Leaf Spot) for Barley production. Increasing EU regulations on fertiliser use and the application of currently available plant protection products require the need to seek and validate effective alternatives for growers.

PhD studentship description: A comprehensive collection of well-characterised new endophytes will be generated and tested for the promotion of barley growth and disease resistance. We plan to use DNA barcoding to identify fungal species. We will then test combinations of the novel endophytes at the glasshouse and farm scale for crop production. The wild relatives of cereals represent a largely untapped source of beneficial microbial endophytes and they have huge potential to reduce costly and environmentally degrading chemical inputs such as fertilizers and pesticides. Our previous research on a single crop wild relative of barley (Hordeum murinum) highlighted the huge diversity of potential crop endophytes and developed a focused approach for fungal endophyte selection and subsequent application to crop production. Complementary combinations of endophytes will be identified suitable for crop application. This established approach will be used to find novel endophytes suitable for barley nutrient use efficiency and for fungal and aphid-borne disease.

Requirements and award: Applicants should have a First or Upper Second Class Honours degree or M.Sc. in an appropriate discipline such as Botany, Plant Biology, Mycology, Pathology or Genetics

Stipend: The student will receive a tax-free stipend of Â24,000 per year from which tuition fees are deducted. There are additional funds for conference travel.

Further Information: Professor Trevor Hodkinson, Trinity College Dublin; e-mail: Trevor.Hodkinson@tcd.ie and Dr Brian Murphy murphb16@tcd.ie

Application Procedure: Submit an electronic copy of Curriculum Vitae and a letter of interest (as a single PDF file) to: Trevor.Hodkinson@tcd.ie (quoting the reference number (2019PROG705) in the subject field.

Closing date 09.10.2020 or until filled.

Trevor Hodkinson Professor in Botany Botany Building / School of Natural Sciences Trinity College Dublin, the University of Dublin Dublin 2, Ireland

+353 1 896 1128 Trevor.Hodkinson@tcd.ie

https://www.tcd.ie/Botany/people/hodkinst/ http:/-/people.tcd.ie/hodkinst https://scholar.google.com/-citations?user=OphAvBgAAAAJ&hl=en Trevor Hodkinson <HODKINST@tcd.ie>

TuftsU 2 EvolutionaryGenetics

I am recruiting for multiple PhD positions in the Department of Biology at Tufts University for the Fall 2021 cohort. A central question in my research is "when is evolution important for explaining species' persistence, and why?" I use model-based simulations, genomic data, and observational ecological data from a variety of systems (including species abundance in California grasslands and model/non-model genomes in both plants and animals) to try to address this question. The research group is brand new, and the exact topic of study for each PhD student is open. We have many thriving ecology, evolution, and genetics research groups at Tufts, with potential for interactions with other faculty and trainee colleagues. For more information about the lab and the positions, please see the advertisement (https:/-/uricchio.github.io/student_recruitment.pdf) or my lab page (https://ase.tufts.edu/biology/faculty/uricchio/).

Prospective students are more than welcome to reach out to me with questions or inquiries at Lawrence.Uricchio@tufts.edu. Students need not have extensive computational experience. Rather, I am interested in learning about students' aspirations, especially in terms of the evolutionary or ecological questions they hope to pursue, and/or the social and scientific problems they hope to solve. The positions include a graduate stipend and health benefits.

Applications are due by December 1, 2020.

Sincerely, Lawrence Uricchio

"uricchio@berkeley.edu" <uricchio@berkeley.edu>

UAkureyri Iceland PtarmiganGenomics

Ph.D. studentship in Rock ptarmigan ecological genomics at the University of Akureyri, Iceland.

We're seeking a highly motivated Ph.D. student to work on a fully funded project on evolutionary genomics and ecology of rock ptarmigan (Lagopus muta) in Iceland. The project is funded for 36 months, starting in november 2020.

The project Ecological genomics encompasses ecology, genomics, and evolutionary biology, and utilizes genomic approaches to address consequential ecological questions. In this the project we will apply an ecogenomic approach, by analysis of genome diversity and gene expression, assessing the association of genetic variants to population cycling or intermediate phenotypes of rock ptarmigan. Within the frame of the recently completed comprehensive project, "Rock ptarmigan health and population change" spanning the years 2006-2018, a unique tissue and dataset have been created by the annual collection from this wild bird population. We aim to explore the impact of trophic interactions such as diversity of the gut microbial community, plant-herbivore interactions, and role of toxins. The health parameters and tissue collection of Icelandic rock ptarmigan are unique with no such comparable dataset available elsewhere The ecogenomic approach will involve generating genomes, transcriptomes, and miRNAomes from the rock ptarmigan followed by comparative genomics and tissue-specific expression analysis with the goal to map and characterize genomic regions involved in selection/adaption and to examine how genes are involved in various biological processes such as abiotic and biotic stress responses.

The main supervisor of the Ph.D. student is Professor Kristinn Pétur MagnÃ¸sson at the Faculty of Natural Resource Sciences, University of Akureyri

(UNAK,www.unak.is), and Icelandic Institute of Natural History (IINH). Other advisors are Professor Jacob Höglund at the Institute of Ecology and Genetics, University of Uppsala, Sweden. Professor SnÃbjörn Pálsson, Faculty of Life and Environmental Sciences, University of Iceland, Dr. Eva Charlotte Halapi, Faculty of Natural Resource Sciences, UNAK, and Professor Jennifer Forbey, Department of Biological Sciences, Boise State University, Boise, USA. The bulk of the work will be carried out at the UNAK/IINH laboratories in Akureyri, but the student will also attend secondments in Uppsala, Sweden, and Idaho, USA.

The role of the doctoral student In accordance with the rules and regulations for doctoral studies at the University of Akureyri, the student will prepare and submit their own study plan, and otherwise submit tothe obligations and attain the rights of doctoral students at UNAK. The doctoral studies will conclude with the public defence of a Ph.D. thesis consisting of peer-reviewed publications in internationally recognized academic journals.

Qualifications A successful applicant will have a first-class M.Sc.-degree or equivalent in a relevant field, such as evolutionary biology, genomics, bioinformatics, population genetics, or molecular genetics. The applicant will furthermore have a genuine, interest in science, as well as a willingness to learn new methods of research and excellent interpersonal and collaborative skills. Documented reading, writing, and communication skills in English are an absolute must.

The application deadline is Ocober 20th, 2020. The applicant should be able to commence employment in novermber 2020.

Application process The application process for doctoral student positions at the University of Akureyri is divided in two steps: Firstly, the applicant submits an formal application to the relevant research project to kpm@unak.is.

The application should consist of:

1. A cover letter, wherein the applicant states the reasons for their interest in the project, explains how they fulfill the eligibility criteria, and outlines their proposed contribution to the project. 2. A curriculum vitae, listing all relevant qualifications and work experience. 3. A copy of any relevant diplomas and/or transcripts. 4. Contact information for at least two reference persons.

Secondly, once the successful applicant has been offered a position in the research project, a formal application for admission into the doctoral studies program should be prepared under the supervision of the main advisor. Guidance can also be obtained from the doctoral studies program atdoktorsnam@unak.is.

Further information Salaries and benefits are according to the Collective Agreement on Salaries and Work Conditions between the Union of University Teachers at the University of Akureyri (FHA) and the Minister of Finance. Incomplete applications will not be considered. The University of Akureyri reserves the right to reject all applications. Every application will receive a reply after a decision on appointment to the position has been made. The

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UCanberra SexChromosomeEvolution

Graduate position (PhD): sex chromosome evolution in a viviparous reptile with genotypic and temperature-dependent sex determination

Project theme:

Sex-determination controls the most significant variation within animals- the division into males and females. While the different systems of sex-determination involving genetic or environmental control are relatively well understood, transitions between these systems remain enigmatic in evolutionary biology. This project aims to address this gap by revealing the molecular and cytogenetic changes required to transition between modes, using one of only two known lizard species exhibiting both genetic and temperature control of sex. This knowledge will have important implications for species conservation, facilitating predictions of highly biased sex ratios under climate change, plus potential commercial applications for species where the production of one sex is favoured.

A PhD position is available to contribute to this research. This student will conduct advanced cytogenetic research on species of Australian lizards to help understand the genomic changes accompanying transitions between genetic and temperature-dependent sex determination.

This collaborative research project is funded by an Australian Research Council Discovery Project grant awarded to the University of Tasmania (Assoc Profs Chris Burridge and Erik Wapstra) and the University of

Canberra (Prof Tariq Ezaz). This PhD project will be based at the cytogenetics laboratory of Prof Tariq Ezaz (University of Canberra). However, the successful PhD candidate will spend significant time at the University of Tasmania to perform fieldwork and some molecular genetic analysis. The Cytogenetic techniques to be employed include C-banding, Comparative Genomic Hybridisation (CGH), chromosome microdissection, fluorescence in situ hybridisation (FISH), BAC library screening, and Next-Generation Sequencing (NGS). Bioinformatics such as comparative mapping will be also be conducted.

The Ideal Candidate

The ideal candidate is expected to have knowledge in molecular cytogenetics (e.g. cell culture, chromosome preparation, FISH), and genomics (e.g. genomic data mining, experience and familiarisation with sequence analyses and NGS technology). Knowledge of chromosome biology and sex determination is also desirable. The candidate will be self-motivated and well-organised, with a demonstrated capacity to learn and apply the broad skill set necessary for the successful completion of a research project. The successful candidate will be able to work alongside a wide variety of people in multi-function and multicultural laboratories. The successful candidate will also have a strong commitment to excellence in research and scholarship.

Scholarships

Financial support for domestic and international students is expected to be available for a high achieving student through University of Canberra scholarship round (applications close 30 September). These scholarships are highly competitive. To be competitive, candidates should have a first-class honours degree or equivalent in a relevant area and other evidence of research potential (such as publications and relevant work experience). The scholarship and project are for three years. More information on the scholarships and admission process can be found at http://-www.canberra.edu.au/future-students/scholarships-and-financial-support/scholarships-and-fees Eligibility

The University of Canberra scholarships are open to all nationalities. However, overseas candidates for whom English is not a first language must secure an IELTS score of 6.5 and have no individual score falling below 6.0 to satisfy our English language requirements. More information can be found here http://www.canberra.edu.au/-future-students/research-students/english-proficiency How to Apply

Interested applicants should submit a CV, a copy of their academic transcript, a sample of your written scientific work, and a cover letter outlining their research interests to tariq.ezaz@canberra.edu.au and chris.burridge@utas.edu.au

Christopher Burridge <chris.burridge@utas.edu.au>

UDayton TransgenerationalPlasticity

I am recruiting a highly-motivated masters or PhD student to work in my lab (https://-jehellmann45.wixsite.com/home) in the Department of Biology at University of Dayton (http://-biology.udayton.edu). The prospective student should be excited to work with fishes and possess enthusiasm for laboratory and/or field work, strong communication skills, and attention to detail. Prior research experience in ecology, evolution, behavior, or ichthyology is preferred, but not required. I welcome applicants from under-represented groups in STEM (including first-generation students) to apply. Start date can be either January or August 2021. The position is fully-funded through teaching assistantships, with stipend, full tuition waiver, health insurance, and funds for annual conference travel.

The student will be expected to develop an independent research program that expands or compliments current research in the lab. Possible topics include, but are not limited to: the role of developmental and transgenerational plasticity in helping organisms cope with predation risk and human-induced environmental change, sperm-mediated paternal effects, and the interplay between maternal and paternal effects. Interested students are encouraged to view recent preprints (https://-jehellmann45.wixsite.com/home/recent-news) to get a better idea of current work.

UD is the one of the largest private universities in Ohio, and is award winning for both academic programs and scholarship. Enrollment is ~8500 undergraduates, with ~2500 graduate students. To begin the application process, please send a CV, a brief statement of research interests, an unofficial transcript, and contact information for three references to Dr. Jennifer Hellmann (jhellmann1@udayton.edu). Informal review of candidates will begin immediately.

Jennifer Hellmann Assistant Professor Department of Biology University of Dayton https:/-/jehellmann45.wixsite.com/home Pronouns:

she/her/hers

"jhellmann1@udayton.edu" <jhellmann1@udayton.edu>

UFLorida EvolutionaryAnthropology

Graduate Student Opportunities in Evolutionary Anthropology at University of Florida

The Graduate Program in Evolutionary Anthropology in the Department of Anthropology at the University of Florida is recruiting doctoral level students. Our department (www.anthro.ufl.edu) has 30 full-time faculty with diverse interests that complement student opportunities for research and training. We are one of the top rated anthropology programs in the country and have an active cohort of graduate students. Our emphasis in Evolutionary Anthropology complements the department???s four-field approach to essential and pressing questions in the field. With our students, we aim to understand the natural and cultural history of humankind through detailed study of human and non-human primate morphology, physiology, genetics, and behavior/cognition.

The University of Florida is ranked #6 among public universities in the U.S. and there are many opportunities for collaboration among its 16 colleges, and 2000-acre campus, and extensive global networks. Gainesville is located in north central Florida, with average temperatures ranging from 45'F to 90'F, and the Gulf Coast and Atlantic beaches relatively close (~ 1?? hours drive).

Successful applicants are offered competitive funding through teaching assistantships, with additional support available through fellowships/research assistantships, as available. The deadline for applications each year is December 15th, however, applicants should apply early to ensure that all parts of their application meet the deadline. As of 2020, GREs are not required for applications to be complete.

We recommend potential applicants contact specific faculty and identify potential mentors before submitting an application. Our faculty are more than willing to entertain questions about the program and about their own labs and research. For questions or assistance with the application process, please e-mail our Graduate Program Coordinator, Ms. Juanita Bagnall <jjba@ufl.edu> or the Graduate Coordinator, Dr. Katherine Grillo <kgrillo@ufl.edu>. More information about graduate studies in Anthropology can be found here < https://anthro.ufl.edu/academics/grad-students/ >.

Evolutionary Anthropology Faculty at UF

Jonathan I. Bloch, Ph.D. < https://www.floridamuseum.ufl.edu/museum-voices/jon-bloch/ > (Paleontology) John Krigbaum, Ph.D. < https://anthro.ufl.edu/2013/09/29/krigbaum/ > (Bioarchaeology) Stephanie Bogart, Ph.D. < https://anthro.ufl.edu/2018/08/29/stephaniebogart/ > (Primatology) Connie J. Mulligan, Ph.D. < https://anthro.ufl.edu/2013/09/29/mulligan/ > (Genetics) David J. Daegling, Ph.D. < https://anthro.ufl.edu/2013/11/05/ddaegling/ > (Morphology) Phoebe R. Stubblefield, Ph.D. < https://anthro.ufl.edu/2018/08/29/phoebestubblefield/ > (Forensic Anthropology) Valerie Burke DeLeon, Ph.D. < https://anthro.ufl.edu/2013/11/24/deleon/ > (Morphology) Kim Valenta, Ph.D. < https://anthro.ufl.edu/2019/08/26/kimvalenta/ > (Primatology)

Jonathan I. Bloch, Ph.D. < https://www.floridamuseum.ufl.edu/museum-voices/jon-bloch/ > (Curator of Vertebrate Paleontology at the Florida Museum of Natural History) Bloch (University of Michigan, 2001) studies fossil vertebrates from the Cenozoic with an emphasis on addressing questions surrounding the first appearance and early evolution of the modern orders of mammals, including Primates. He does field-based research in the Miocene of Panama and Florida, the Paleocene and Eocene of the Clarks Fork, Bighorn, Bridger, and Crazy Mountains basins of Wyoming and Montana, and the Cerrejon and Bogota formations of northern Colombia. His research includes an emphasis on primate origins and adaptations and understanding the response of vertebrate communities to climate change as documented in the fossil record.

Stephanie Bogart, Ph.D. < https://anthro.ufl.edu/2018/08/29/stephaniebogart/ > (Lecturer in Anthropology) Bogart (Iowa State University, 2009) is a behavioral ecologist who specializes in ape research. Using interdisciplinary training in her work she has examined chimpanzee feeding behaviors,

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UFlorida SexualSelection

Do you find animal behavior fascinating? I am looking to recruit one Ph.D. student for Fall 2021 to work on the evolution of male-male competition and the form and function of sexually selected weapons.

We study the evolutionary interplay of behavior and morphology, often focusing on sexual selection. The leaf-footed bugs, Family Coreidae, are excellent experimental subjects for student work. These insects wrestle with their hind legs over territories and have an amazing diversity of hind leg shapes. Ongoing projects in the lab include studies of trade-offs between weapons and testes; the effect of nutrition and social environments on weapon structure, testes size, and male fighting behavior; and the evolution of phenotypic plasticity. We are currently reconstructing a phylogeny of the Coreidae to test hypotheses of weapon shape evolution.

The successful applicant for this position will have previous research experience and coursework in the fields of ecology, evolution, and/or animal behavior. Funding would most likely come in the form of a UF Graduate Fellowship. To be competitive for this fellowship, a M.S. degree in a related field and/or substantial research experience is required. Prospective students are encouraged to email Dr. Christine W. Miller at cwmiller@ufl.edu on or before October 31st, though I will also attempt to consider later inquiries. Before sending an email, please first consult my laboratory's website, www.millerlab.net to learn about some of the research priorities for the coming years.

Your email should include 1) a statement of the kinds of research questions that you would like to pursue, 2) an explanation of how these fit in with current lab research, 3) a brief overview of your previous academic and research experiences, 4) a CV or resume, and 5) an unofficial transcript. Accepted students will be provided a tuition waiver and a competitive stipend.

Diversity and inclusion are more than just words for us. These are central in guiding how we come together as a research team, cultivate excellence, and go forth into the world to share our discoveries and our love of our work. If this all sounds good to you, then please inquire about joining the lab!

Information about Gainesville, Florida:

Situated in the rolling countryside of north central Florida, Gainesville, is close to world-class fishing, snorkeling, canoeing, tubing and kayaking. On land, those so inclined may enjoy birding, hiking, biking, and fishing. Home of the University of Florida, seat of Alachua County's government and the region's commercial hub, Gainesville is progressive, environmentally conscious and culturally diverse. The presence of many students and faculty from abroad among its 99,000-plus population adds a strong cross-cultural flavor to its historic small-town Southern roots. Its natural environment, temperate climate and civic amenities make Gainesville a beautiful, pleasant, and interesting place in which to learn and to live. #blacklivesmatter

Christine W. Miller Associate Professor | University of Florida, USA email: cwmiller@ufl.edu phone: (352) 273-3917 web: www.MillerLab.net facebook: @bugweapons

Find me on twitter: @cwmillerlab

"Miller, Christine W." <cwmiller@ufl.edu>

UGroningen FitnessBenefitsLongPartnerships

PhD scholarship 'Fitness benefits and heritability of long-term partnerships' (B085220)

We are looking for a student who wishes to design their own PhD research project researching fitness benefits and heritability of long-term partnerships. You will be supervised by Hannah Dugdale (RUG; https://hannahdugdale.wordpress.com), Simon Griffith (MQ; https://griffithecology.com), and David S Richardson (University of East Anglia, UK; https://-people.uea.ac.uk/david_richardson).

This is a double degree at RUG and MQ. For the first two-years you will be based at RUG and embedded in the Seychelles Warbler Project (http://seychelles-warbler-project.group.shef.ac.uk). You will conduct fieldwork in the Seychelles for a minimum of two seasons (up to 3 months per season), with a COVID-19 contingency plan. For the second two-years you will be based in Australia on the MQ campus. You will be part of a team of PhD students, post-docs, and staff who are using long-term individual-based datasets of natural populations to improve understanding of life-history evolution.

As a PhD scholarship student, you will develop your own research project in consultation with the associated supervisor(s). You will conduct independent and original scientific research, report results via peer-reviewed

publications, conference presentations, and ultimately a PhD thesis. The PhD thesis has to be completed within four years. Being part of a cutting-edge research programme, you will receive training in the form of hands-on instruction, advanced courses, summer/winter schools, as well as complementary workshops on generic research and transferable skills. Special attention is paid to training activities directed towards your future (academic or non-academic) career after the PhD trajectory, in the context of the RUGÂÂs Career Perspective Series, and the Research Training Certification Program at MQ.

Project In socially monogamous species, pair-bonds may persist over multiple breeding seasons, which can have important fitness consequences. For example, the persistence of long-term pair-bonds can promote cooperation in territory and nest defence, and improve coordination in offspring care. Nevertheless, divorce (whereby previously pair-bonded birds are both alive in the next breeding season but at least one pair-bonds with a new mate) is common in socially monogamous species. Why some pair-bonds persist whereas others do not is an important question for understanding the evolution of life-history strategies.

You will design your project to investigate the evolution of pair-bond behaviour. In the Netherlands, you will have the long-term Seychelles warbler dataset available to address this question. Seychelles warblers are cooperative breeders and we have detailed life-history data of over 2,000 birds, spanning more than 30 years. Potential research questions are age-specific selective pressures and the heritability of long-term pair-bonding and divorcing. In Australia, you will work at a comparative level to investigate questions such as the strength of pair bonds; behavioural interactions between partners; and value of affiliative behaviours in dozens of species across one of the most diverse avifaunal assemblages in the world. These empirical data will be combined with life-history, and ecological data to understand the evolution of partnerships.

References Griffith SC (2019) Cooperation and coordination in socially monogamous birds: Moving away from a focus on sexual conflict. Frontiers in Ecology and Evolution, 7, 617ÂC15.

Raj Pant S, Hammers M, Komdeur J et al. (2020) AgeÂ©\dependent changes in infidelity in Seychelles warblers. Molecular Ecology, doi: doi:10.1111/mec.15563.

Qualifications

We are looking for a candidate who: - holds a (research) master degree (or will graduate before appointment date) in a relevant field, such as Evolutionary Biology with a grade level of at least a distinction (75% or greater) - is curiosity driven and passionate about fundamental research in the context of quantitative genetics and life-history evolution - has previous experience of bird ringing and conducting fieldwork in harsh environments (training will be provided) - has strong quantitative skills (training will be provided) - has experience in extracting and analysing data from databases or large datasets (training will be provided) - is a team player, willing to work with a diverse group of researchers and technicians, and can also work independently - has strong communication skills and is motivated to disseminate results to both scientific peers and a broad audience - is proficient in the English language

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UGroningen QuantGeneticsHumanLifeHistory

PhD position in Quantitative Genetics of Human Life-History (1.0 FTE) (220289)

Job description

You will conduct research on the quantitative genetics of human life-history evolution in collaboration with Virpi Lummaa's Human Life History Group (https://human-life-history.science/) at the University of Turku, Finland, Erik Postma's Research Group (http://www.erikpostma.net) at the University of Exeter, UK and the Faculty of Science and Engineering. Supervision is by Hannah Dugdale, Virpi Lummaa and Erik Postma. You will have access to two long-term, pedigreed, human datasets of rural Finns and the Swiss canton of Glarus. You will be part of a team of PhD students, postdocs, and staff who are using these individual-based historical archives to improve understanding of human life-history evolution.

In addition to conducting research, there will be some teaching duties (~10% of your time).

Project

One of the most profound challenges we all face is our deterioration with age - a process known as senescence.

Individuals clearly senesce differently, in both the age they start to deteriorate and the rate they decline at. However, the underlying causes of these differences in senescence patterns remain poorly understood. In particular, this may be due to trade-offs underlying senescence, and the interaction of genetic and environmental effects on senescence patterns. Understanding the quantitative genetics of life-history traits is important as it will potentially highlight deleterious effects that individuals could mitigate to live longer healthier lives.

For your PhD, you will investigate the relative impact of environmental and genetic factors on senescence using two exceptional human archive datasets from rural Finland and the Swiss canton of Glarus. You will first investigate the accuracy of selection measures by asking how well standard fitness measures, such as lifetime reproductive success and the number of grand-offspring, reflect expected genetic contribution to future generations. You will then investigate, though a quantitative genetic framework, the heritability of fitness metrics and genetic trade-offs in life-history traits, such as the age of first reproduction and longevity. You will then test whether these genetic trade-offs vary across environmental conditions, between the sexes and with age. Finally, you will quantify how quantitative genetic parameters change in relation to the demographic transition.

Qualifications

You are expected to:

- hold a (research) master degree (or will graduate before appointment date) in a relevant field, such as Evolutionary Biology

- be curiosity driven and passionate about fundamental research in the context of quantitative genetics and life-history evolution

- have strong quantitative skills (training will be provided)

- ideally have experience in extracting and analysing data from databases or large datasets (training will be provided)

- be a team player, willing to work with a diverse group of researchers and technicians, and can also work independently

- have strong communication skills and are motivated to disseminate results to both scientific peers and a broad audience

- be proficient in the English language (oral and written) e.g. with a minimum IELTS score of 7.0 overall and 6.5 on parts

- be strongly motivated to obtain a PhD degree.

Organisation

Groningen Institute for Evolutionary Live Sciences (GELIFES; http://www.rug.nl/research/gelifes), Faculty of Science and Engineering, invites applications for a fully-funded, four-year PhD position in its Behavioural and Physiological Ecology group.

University of Groningen (RUG)

Founded in 1614, the University of Groningen enjoys an international reputation as a dynamic and innovative centre of higher education offering high-quality teaching and research. Flexible study programme and academic career opportunities in a wide variety of disciplines encourage the 32,000 students and researchers alike to develop their own individual talents. Quality has been our top priority for over four hundred years, and with success: the University is currently in or around the top 100 on several influential ranking lists.

GELIFES, Faculty of Science and Engineering

The Groningen Institute for Evolutionary Life Sciences (GELIFES), one of the larger institutes of the Faculty of Science and Engineering (FSE), fills a special niche in the life sciences by covering and integrating mechanistic, evolutionary and ecological approaches, aiming to understand adaptation on all levels of biological organisation. Researchers pursue fundamental questions while collaborating with partners from nature conservation, industry, medicine and other realms of society. Our research fields include ecology, conservation biology, evolutionary

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UJena PlantGenomics

PhD student position on Community Genomics of Plants

The Institute of Ecology and Evolution at the Faculty of Biological Sciences, Friedrich-Schiller-University Jena, offers a DFG-funded PhD student position, starting 01/01/2021.

Project

Intraspecific genetic diversity represents the raw material for adaptation and the long-term maintenance of

genetic diversity is therefore a key determined for interspecific biodiversity and ecosystem functioning. But what are the interrelations between intra- and interspecific diversity? With our DFG-funded project, we aim to use the unique opportunities offered by a long-term experimental biodiversity project to study the effect of interspecific diversity on intraspecific genetic diversity. To this end we will sequence the genomes of all plant species in a grassland community. This largely bioinformatics project involves in-depths population genetic analyses of these genomic data. We will gain important new insights into the micro-evolutionary processes that might contributed to strengthening biodiversity effects that are frequently found in experimental biodiversity studies.

Research environment

The project is conducted in collaboration with Prof. Dr. Jochen Wolf form the Ludwig Maximilians University Munich. It is part of a DFG-funded Research Unity and will use the infrastructure of the Jena Experiment (http://www.the-jena-experiment.de). The Research Unit as a whole provides a multi-angle perspective on the phenomenon of strengthening biodiversity effects. It offers a multitude of collaborative opportunities that give a perfect setting for the project.

Candidate requirements

We look for a candidate with a MasterÂs degree or equivalent who has a strong background in bioinformatics analyses of genomic and/or transcriptomic data. Highly motivated students with solid training in other areas of evolutionary biology are also encouraged to apply. The applicants should have documented skills in computational analyses. Experience with scientific writing will be a plus.

How to apply

The position is for 36 month and payment will be based on the tariff contracts for the public service (65% up to E13). The Friedrich-Schiller University Jena is an equal opportunity employer and strives to employ both genders equally, as well as to employ more individuals with disabilities. Therefore, we encourage all applicants, independent of their nationality, gender or disability, to apply for this position. Please send your application as a single pdf in English including a letter of motivation, summarizing your experience and future vision, CV of no more than 4 pages, list of publications, relevant certificates (degree certificates, etc.) and the names of two referees by 01/10/2020 to Prof. Dr Holger Schielzeth (holger.schielzeth@uni-jena.de).

Holger Schielzeth <holger.schielzeth@uni-jena.de>

UKentucky InsectEvolutionGenomics

PhD position in insect evolution & genomics

I am seeking a highly motivated PhD student to join my research group at University of Kentucky in Spring 2020/Fall 2021. Work in my lab focuses on insect evolution, speciation, integrative taxonomy, and molecular systematics using genomic approaches. The exact research project topic for this potential student is somewhat flexible, but will ideally focus on the genomic architecture of speciation and hybridization in North American swallowtail butterflies. Other potential projects include investigating ways that machine learning can be used to facilitate species delimitation, evaluating ecological drivers of diversification in buck moths, and developing molecular diagnostic tools for species identification and pathway analysis in invasive insect pests. I am also open to ideas and encourage potential applicants to contact me directly to discuss their interests and suitability. For more information, see www.julianrdupuis.com . The Department of Entomology at University of Kentucky offers excellent graduate training in diverse areas of insect biology. The Entomology graduate program is ranked in the top 10 nationally and is consistently rated as one of the most productive programs at the University of Kentucky, measured by the total number of student publications and presentations. Students from our department go on to have successful careers in a variety of sectors, including academia, industry, government science, and extension, to name a few.

I am looking for a student with a strong background in biology, entomology, or ecology and evolution (BSc or equivalent, MSc preferred). Experience with field research, molecular biology/genomics, and bioinformatics is preferred, as well as demonstrated research experience through completion of a MSc or undergraduate research. This position includes a competitive stipend, tuition waver, and health coverage.

Interested applicants should submit 1) a cover letter detailing research experience, interests, and career goals, 2) a CV and unofficial transcript, and 3) name and contact information for three references to julian.dupuis@uky.edu. The successful applicant will be required to apply to the University of Kentucky Graduate School, although application to the graduate school can

come a later time. See https://entomology.ca.uky.edu/-academics/graduate for more information on how to apply.

– Julian R. Dupuis, Ph.D. Assistant Professor Department of Entomology University of Kentucky Lexington, KY 40546 (859) 562-2544 julianrdupuis.com

"Dupuis, Julian R." <Julian.Dupuis@uky.edu>

ULausanne 15 QuantitativeBiology

15 Fully funded PhD studentships in Quantitative Biology

The advent of large-throughput data is transforming life sciences into an increasingly quantitative discipline. The University of Lausanne (Switzerland) is at the forefront of this revolution, with quantitative research ramping up throughout the Faculty of Biology and Medicine, a dedicated department of Computational Biology, and interdisciplinary units such as the Center for Integrative Genomics. UNIL also hosts the headquarters of the Swiss Institute of Bioinformatics, to which many quantitative research groups are affiliated, and closely collaborates with EPFL on the same campus. Ideally situated along the lake of Geneva, near Lausanne's city center, UNIL brings together over 120 nationalities.

UNIL's Faculty of Biology and Medicine has recently launched a doctoral program entitled "Quantitative Biology". A wide range of research groups are recruiting PhD students, covering areas as diverse as Genetics, Cell biology, Metabolism, Computational biology, Oncology, Evolution, Microbiology, Imaging, Molecular biology, Neuroscience, Gene regulation, Radiobiology, and Plant science.

In 2020, hiring principal investigators include Francesca Amati, Roman Arguello, Richard Benton, Sven Bergmann, Giovanni Ciriello , Christian Fankhauser, David Gfeller, Gilbert Greub , Laurent Keller, Isabel Lopez-Mejia, Sophie Martin, Sara Mitri, Micah Murray, Alexandre Reymond, Marc Robinson-Rechavi, Tanja Schwander, Jan-Willem Veening , Aleksandar Vjestica, and Marie-Catherine Vozenin.

Job information

Expected start date: 01.03.2021 or to be agreed Contract length: The initial contract is for one year and is extendable to a total of 4-5 years. Activity rate: 80-100% Workplace: University of Lausanne, Dorigny or Bugnon, Switzerland

Your qualifications

We are accepting applications from talented and enthusiastic candidates who are interested in a dynamic, well-supported lab at a top research institution. Candidates need to finish a Master's degree in a relevant area before the start date of their doctoral studies.

We are looking for three main types of PhD students: * Students with a life science degree, interested in working in an experimental lab, but with a high degree of motivation to learn the fundamentals of computational biology, and to develop quantitative skills to analyse data more effectively * Students with a life science degree interested in working in a dry computational lab, keen to deepen their quantitative skills and broaden their horizon in terms of experimental and computational techniques * Students with a non-biological background (e.g. computer science, maths, physics), who are highly motivated to transition to Life Sciences

A high level of written and spoken English proficiency is required since most scientific activities are conducted in English.

What the position offers you

You will develop your research project while working in a world competitive, interdisciplinary and highly collaborative environment.

The PhD program in Quantitative Biology provides opportunities for professional training and acquisition of highly transferable skills. This is complemented by a wide range of activities (retreats, symposia, student life).

The positions are fully funded. Salary and benefits are internationally highly competitive. Additional funding for consumables, computing, and to attend international conferences is available.

Your application

For your application to be considered, you need to fill in two forms:

The first form, at https://career5.successfactors.eu/-sfcareer/jobreqcareer?jobId=16353&company=-universitdP, requires the following informations: * Personal details * A single PDF document containing: * Your curriculum vitae (with extracurricular activities, internships, publications, conferences, awards, software contributions, etc.) * Master's thesis summary * The names and contact details of 2-3 referees.

The second form, https://forms.gle/-5ezRpjNLemANgJW68, requires you to answer the following questions

* What your most meaningful research experience to date and why? [up to 4000 characters, i.e. approximately 850 words] * What accomplishment–academic or not–to date are you proudest and why? [up to 1500 characters, i.e. approximately 320 words] * Why would you like to pursue a PhD, and why specifically at the UNIL Quantitative Biology Ph.D. program? [up to 1500 characters, i.e. approximately 320 words] * Which recruiting labs are you the most interested in and why [up to 1500 characters, i.e. approximately 320 words]

Remote interviews will take place on 17 and 18 November 2020. Lab visits and interviews will take place on 8-9 December 2020 in Lausanne (pandemic

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Ullinois EvolutionBehavior

The Department of Evolution, Ecology, and Behavior (EEB) at the University of Illinois is accepting applications for graduate students for admission in Fall 2021. We accept applications for both the Master's (M.S.) and Doctor of Philosophy (Ph.D.) degrees. We are an interactive group with expertise in evolution, ecology, behavior, bioinformatics, conservation, genetics & genomics, physiology, neuroscience, endocrinology, and morphology. Students take many approaches to their studies including field work on whole organisms, genomics/bioinformatics, lab experimentation, and theory. The University of Illinois at Urbana-Champaign also offers state-of-the-art research facilities in imaging, genomics, and engineering. Urbana-Champaign is a pleasant, affordable, university town with good music and restaurants. It has its own airport and is close to three major U.S. cities (Chicago, Indianapolis, St. Louis).

Students for the Ph.D. are typically funded for 5-years with a combination of fellowships, research assistantships, and teaching assistantships. The deadline for consideration is December 15, 2020. For further information, see https://sib.illinois.edu/eeb/-graduate_admissions . The following faculty are actively recruiting students:

Alison Bell - Individual variation; animal personality and behavioral syndromes; neurogenomics; evolution of behavior. We primarily study threes-pined stickleback fish.

Carla Caceres - Population, community and evolutionary ecology; life-history evolution; ecology of infectious disease; limnology.

Julian Catchen - Evolution of the genome; computational biology and population genomics; identifying large structural variation in populations of threespine stickleback; investigating the evolution of the notothenioid (Antarctic fishes) genome by examining the adaptive radiation of five notothenioid species. RADseq, assembly, and genetic mapping analytical method development.

Chris Cheng - Molecular evolution of antifreeze proteins and other cold adaptive or specialized traits in polar fishes; origins and molecular mechanisms of new gene genesis; molecular cytogenomics; Southern Ocean marine diversity including eDNA methods. Field research in Antarctica and the Arctic.

Eva Fischer - Mechanisms of behavior with an emphasis on parental care in amphibians; Evolution of behavioral mechanisms and the extent to which these constrain and/or facilitate evolution of behavior; Genomics/Neurogenomics

Becky Fuller - Evolutionary biology of fishes; evolution of color patterns/color vision; speciation as a function of adaptation to salinity and genomic rearrangements; speciation in darters and killifish

Mark Hauber - Ecology and evolution in birds; brood parasitism; comparative chemistry of egg shell pigmentation, acoustic and visual recognition systems in birds, neuro-ethology and -genomics, seabird conservation

Ken Paige - Plant-animal interaction with an emphasis on understanding the phenomenon of overcompensation from ecological, physiological, genetic and evolutionary perspectives; conservation biology; evolutionary ecology.

"Fuller, Becky Claire" <rcfuller@illinois.edu>

ULouisville EvolutionaryEcology

I am currently recruiting 1-2 Ph.D. students to join my lab starting Fall 2021.

My lab combines evolution, ecology, and behavior to study how populations and communities respond to environmental change. We are particularly interested in how population responses and their consequences for community interactions vary across time and space. We use lab and field experiments, field collections, and population genomics. Work in the lab currently focuses on two study systems: Rhagoletis flies and Ambystomatid salamanders. More details are available at: alyciarlackey.weebly.com

Potential research topics include, but are not limited to: 1) Testing how environmental changes affect selection on populations and evaluating how these changes alter community interactions (e.g., competition, predation, parasitism). 2) Testing how response to environmental change affects (the potential for) gene flow by measuring differences in habitat use, timing of reproduction, mating interactions, and/or reproductive success and then estimating consequences for divergence and speciation. 3) Comparing population responses to environmental change across latitudinal gradients and examining potential contributions (e.g., differences in standing genomic variation, evolutionary history of selection and/or gene flow).

I welcome students from underrepresented groups in STEM. My mentoring approach is supportive, flexible, and student-centered. I am currently involved in efforts within my department and one of my professional societies to take actions that improve inclusivity and equity. There are also university fellowships to support students from underrepresented groups.

If you are interested in potentially joining my lab, please email me (alycia.lackey@louisville.edu) with (1) a ~1pg statement of your research interests, research experience, and motivation for going to grad school and (2) your CV or resume. Previous research experience in evolution, ecology, or behavior and/or with field work or genomics would be great, but this experience is not required.

Details on the application process are available here: http://louisville.edu/biology/graduate. Email me first before applying. Please note that the GRE is not required. Applications for Fall 2021 are due by Jan. 15, 2020 to be considered for financial support. Financial support includes teaching assistantships, university fellowships, and diversity fellowships, all of which provide a stipend, tuition waiver, and health insurance.

The University of Louisville has ~23,000 students and is located close to downtown Louisville. Louisville is a fun and vibrant city with a variety of options for food, entertainment, and cultural experiences paired with access to hiking, kayaking, and other outdoor activities (https://www.gotolouisville.com/).

Alycia CR Lackey Assistant Professor Department of Biology University of Louisville alyciarlackey.weebly.com

"Lackey,Alycia Carolyn Reynolds" <alycia.lackey@louisville.edu>

UMuseumBergen EvolutionAvianEggs

There is a vacancy for a PhD student position in evolutionary ecology at the Department of Natural History, The University Museum of Bergen. We are seeking a highly motivated candidate to work on a project focusing on the evolution of avian egg sizes and clutch sizes, parental care, and hatching success. Central components of the project will include detailed field studies of birds and comparative work. Deadline for applications: 25th September 2020. For more information, please see the following URL:

https://www.jobbnorge.no/en/available-jobs/job/-191638/phd-position-in-evolutionary-ecology Dr. Terje Lislevand (terje.lislevand@uib.no)

Terje Lislevand <Terje.Lislevand@uib.no>

UNorthCarolina Wilmington VertebrateNeuroevolution

The Schweikert Lab at the University of North Carolina Wilmington is recruiting a graduate student to join the 'Evolutionary Neuroecology' group in the Department of Biology and Marine Biology (BMB) in the Fall of 2021. The available position is for the Master's program, with possible advancement to PhD. The lab primarily studies

the neuroecology of marine vertebrate vision, centering on topics that include the sensory basis of dynamic skin color change, deep-sea bioluminescence, and the visual ecology of gamefish and whales. Project selection is flexible, as the student will be encouraged to develop an independent research idea that aligns with lab interests.

Students can learn more about the lab research program here: https://schweikertlab.com Research in the Schweikert Lab is integrative, and students with interest in developing molecular, histological, and computational skills are encouraged to apply. The early application deadline is Feb 15th 2021, with the application period extending to June 30th 2021. Prior to applying, interested students are strongly encouraged to contact Dr. Lorian Schweikert directly. Please send an email to schweikertl@uncw.edu containing (1) a detailed curriculum vitae that includes your GPA and GRE scores (if available) and (2) a letter of interest outlining your rationale for pursuing a graduate degree, your career goals, and your motivation for applying to the Evolutionary Neuroecology lab.

Lorian Schweikert

Assistant Professor

Department of Biology and Marine Biology

University of North Carolina Wilmington

– Lorian E. Schweikert, Ph.D. Postdoctoral Fellow

Florida International University Depart. of Biological Sciences 3000 NE 151 St. MSB-250D North Miami, FL 33181, USA lab: 305-919-5838 office: 305-919-4104

Lorian Schweikert <lorian.schweikert@gmail.com>

UOldenburg HerbariumGenomics

We are hiring at the Faculty V, Institute of Biology and Environmental Sciences (IBU), Research Group Plant Biodiversity and Evolution, Carl von Ossietzky University Oldenburg, from 01.01.2021 to 31.12.2023, aPhD student (m/f/d)(TV-L E13, 65%) - 36 months

The position is to be filled within the DFG priority program (SPP1991) Taxon-omics. In the project “Making efficient use of herbarium specimens - Hybrids in Veronica as case example ” the genomes for three species of the genus Veronica are to be sequenced. Two of the three species form a region with frequent hybrids in the Southern Carpathians. Using multiplex shotgun sequencing and morphometry, recent and historical plants (herbarium specimens) will be analyzed and the spatial and temporal evolution of the hybrid region will be analyzed. The project therefore offers opportunities to combine and learn genome sequencing, phylogenomic analysis, as well as collection and field work.

Hiring requirements

Completed scientific university studies with a degree in biology

or similar subjects qualifying for a doctorate (Master or Diploma)

Fluent written and spoken English

Experience in scientific publishing

Profound knowledge of phylogeographic and evolutionary biological literature

Experience in high-throughput sequencing analysis

Knowledge in handling relevant software, also on LINUX or R basis

Communication and team skills

Independence and organizational talent

We offer

- Opportunity to do a doctorate (Dr. rer. nat or PhD)

- an interesting research environment in evolution and genomics

- Close cooperation within the priority program with comprehensive training opportunities and the opportunity to visit other German laboratories (see www.taxon-omics.com)

- a collegial working atmosphere

- an established training program (https://uol.de/oltech)

The Carl von Ossietzky University of Oldenburg is striving to increase the proportion of women in science. Therefore, women are strongly encouraged to apply. According to § 21 para. 3 NHG, female applicants with equal qualifications should be given preferential consideration. The position is suitable for part-time work.

Severely disabled persons will be given preferential consideration if they have the same qualifications.

Please send your application with your documents (CV, certificates, proof of qualifications) in pdf format to Prof. Dr. Dirk Albach (e-mail: dirk.albach@uol.de) by 2.11.2020 at the latest. He is also available for further information.

Dirk Albach <albach@gmx.net>

UPittsburgh ExperimentalEvolutionaryEcology

Interested in how evolution impacts biodiversity and vice-versa?

The Turcotte Lab of Experimental Evolutionary Ecology at the University of Pittsburgh is looking for a PhD student to work on an NSF funded project testing on how rapid evolution impacts species coexistence. The project combines experimental evolution in field mesocosms using duckweed with the modern coexistence theory. The student would participate in these studies as well as develop their own projects.

Please visit the lab webpage for more information: www.martinturcotte.net The Department of Biological Sciences is a dynamic and growing team of enthusiastic researchers and educators. The department also runs the Pymatuning Lab of Ecology, which is equipped with lab space and housing to facilitate field-based research in northwestern Pennsylvania. The City of Pittsburgh is a vibrant and beautiful place to live. It is often voted the 'Most Livable city in the U.S.'. All graduate students in the department are provided with a competitive stipend and benefits for 5 years through a combination of fellowships, TAships, and research assistantships. Although funding from the lab itself is available, I expect all prospective students to apply for external funding.

Prospective students should email me turcotte -AT- pitt.edu with a few short paragraphs stating why you are interested in the lab and describe your past research experience. Please include your C.V., any publications, and contact information for a few references.

Martin Turcotte, Ph.D. Assistant Professor, Department of Biological Sciences University of Pittsburgh

"Turcotte, Martin" <TURCOTTE@pitt.edu>

UTexas ElPaso AvianPopulationGenomics

The Lavretsky Lab at the University of Texas at El Paso (https://www.utep.edu/science/lavretskylab/) is currently recruiting a graduate student to start in the Fall of 2021! The NSF funded PhD position will unravel genomic consequences when domesticated individuals interbreed with their wild sister taxa. The student will join a vibrant and growing research body in the Department of Biological Sciences, Ecology and Evolutionary Biology Program, at The University of Texas at El Paso (UTEP).

In short, the student will work to uncover the genomic and morphological consequences from a century of interbreeding between domestic and wild mallard ducks. The student will join a multi-institutional research team, and will apply a comprehensive set of molecular techniques to geographically broad species-wide sample sets from contemporary populations, where they will work with >100 full genomes of genetically vetted pure wild mallards, domestic mallards, and their hybrids. Genetic sampling will be extended 100 to 150 years into the past using ancient DNA approaches with museum specimens. Moreover, using 3D morphometric analysis of museum specimens, as well as feeding trails with live wild and domesticated mallards, we will examine how the movement of traits associated with domesticated birds (e.g., bill morphologies that affect feeding efficacy) into wild populations may affect the adaptability of wild populations. The PhD student will have the opportunity to live in Washington D.C. for several summer months where they will work alongside Smithsonian collaborators to collect ancient DNA and 3D morphometric data.

MINIMUM QUALIFICATIONS: - B.S. Degree in evolutionary biology, molecular biology, conservation genetics, bioinformatics or a related field - Highly self-motivated, independent, and creative thinkers that are enthusiastic about pursuing a career in population, conservation, and evolutionary genetics.

DESIRED QUALIFICATIONS: - M.S. Degree in evolutionary biology, molecular biology, conservation genetics, bioinformatics or a related field - Experience in population genetics, evolutionary genetics, or molecular evolution and with molecular data - Experience with programing language such as Perl or Python - Experience with analysis of NGS sequence data

APPLICATION PROCESS: To apply, please submit: a cover letter describing research interests, career goals, and experience related to, or interest in, a current CV; unofficial academic transcript; and, the name and full contact information for three references to Dr. Philip Lavretsky (plavretsky@utep.edu). Review of applications will begin November 16, 2020 and continue until the position is filled.

"Lavretsky, Philip" <plavretsky@utep.edu>

UTexas MolecularEvolutionEcophysiology

The Havird Lab at the University of Texas at Austin is looking for enthusiastic and motivated PhD students beginning in the Fall 2021 semester. Students will have the opportunity to develop independent dissertation projects that complement research themes in the lab on molecular evolution, cytonuclear interactions, and environmental physiology. Ongoing projects in the lab examine coevolution between mitochondrial and nuclear genomes, the roles of cytoplasmic genomes at species boundaries, and ecophysiology/environmental adaptation (https://sites.cns.utexas.edu/havird). Multiple organismal systems are used in the lab, including plants and animals, as well as making use of existing publicly available genomic datasets (especially during remote quarantine work). Students in the Havird Lab are expected to develop both wet lab and bioinformatic skill sets.

The lab is part of the growing Ecology, Evolution, and Behavior (EEB) group in the Integrative Biology Department at the University of Texas. Interested students should contact Justin Havird (jhavird@utexas.edu) and provide a brief description of your research interests along with a current CV. Applicants are encouraged to consider applying for outside funding opportunities (e.g., the NSF predoctoral fellowship). Applicants can apply through the EEB, Plant Biology, or Cell and Molecular Biology (via rotations) Graduate Programs at UT following the links below.

Applications received before December 1st, 2020 will be given full consideration.

Additional information:

Integrative Biology Dept. at UT: https://-integrativebio.utexas.edu/ EEB Graduate Program at UT: https://cns.utexas.edu/eeb-graduate-program CMB Graduate Program at UT: https://-/icmb.utexas.edu/cmb Plant Biology Graduate Program at UT: https://cns.utexas.edu/plantbio-graduate-program Reasons to move to Austin: https://theculturetrip.com/north-america/usa/texas/-articles/10-reasons-everyone-is-moving-to-austin/
Justin Havird <jhavird@utexas.edu>

UToronto AmphibianEvolution

Graduate student position:

Title: Evolutionary Ecology of Amphibians

A fully funded PhD position is available for May 2021 or September 2021 in the Rollinson lab at the University of Toronto (https://rollinson.eeb.utoronto.ca/-). The candidate will lead long-term research on the evolutionary ecology of amphibians at Bat Lake, Algonquin Park, with an emphasis on the spotted salamander (Ambystoma maculatum). The project is ongoing since 2008 (http://patrickmoldowan.weebly.com/-research.html), with annual mark-recapture data on spotted salamanders, egg mass counts, and morphology. Since 2017, the lake has been fully enclosed with a drift fence, allowing estimation of egg-to-metamorph survival of spotted salamanders, as well as a full breeding census of amphibians.

The candidate will work with PI Njal Rollinson to design experiments and develop approaches that explore fundamental and applied problems in evolutionary ecology. The candidate will lead a team of 5 researchers, and thus a strong leadership personality is an asset. Fieldwork is required in April and May (breeding season), and again in August and September (metamorph emergence). The candidate will be based out of the Wildlife Research Station in Algonquin Park (https://-www.algonquinwrs.ca/).

The ideal candidate will have field experience, strong quantitative skills, a keen sense of experimental design, and a passion for natural history and science. Knowledge of amphibian natural histories is also desirable.

If you are interested, please email your CV, (unofficial) transcripts, a writing sample, and a brief statement of interest to njal.rollinson@utoronto.ca. The position will remain open until it is filled.

Njal Rollinson Assistant Professor Ecology & Evolutionary Biology / School of the Environment Earth Sciences Building Office 3051 University of Toronto Phone: 416-529-7726 Research Homepage: https://-rollinson.eeb.utoronto.ca/ njal.rollinson@utoronto.ca

UTuebingen Germany MathAndCompPopGenCRISPR

The newly founded independent junior research group Mathematical and Computational Population Genetics headed by Franz Baumdicker at the University of Tuebingen has an opening for

PhD students (f/m/d)

The group develops and applies mathematical models and bioinformatic tools with a special focus on microbial evolution. We are interested in a variety of evolutionary scenarios including CRISPR-Cas Evolution and Dynamics, Pan-Genome Evolution, Horizontal Gene Transfer, Fluctuation Selection, and Cooperation in Bacteria. The PhD students will work at the intersection of Mathematical Population Genetics / Computational Biology / Bioinformatics using mathematical population genetics, phylogenetics, statistical analysis, machine learning algorithms, and large scale simulations to derive new results, develop open source software and apply them to (microbial) genome data. Ideally, we are looking for someone who is interested to study ancestral events and phylogenies based on CRISPR spacer arrays, and/or diffusion processes modelling the population dynamics of species with CRISPR-Cas systems, but other topics are possible. For scientific questions contact fbaumdicker@gmx.de.

Candidate profiles we would love to see:

Master's degree in (Bio-)Mathematics, Statistics, Bioinformatics, Computational Biology or a related field Interest in interdisciplinary research Strong mathematical preparation and interest Good computational skills (e.g. in Python, R) Independent, responsible and committed work Fluency in (scientific) English

What we offer:

Salary according to TV-L, E13 (65%) Dissertation at the Faculty of Natural Sciences working with two advisors The group is part of two Excellence Clusters (Controlling Microbes to Fight Infections & Machine Learning) in Tuebingen, which offers an excellent research environment with plenty of potential collaboration partners. Flexible starting date (e.g. now or in summer 2021) Integration into the DFG priority programme SPP2141, where appropriate Focus on research (no formal teaching duties) Responsibility to conduct your own research projects with a high amount of autonomy

Researchers from outside Germany are particularly encouraged to apply. Applications and inquiries should be sent to office@cmfi.uni-tuebingen.de.

Please send your application as a single PDF file and include a brief statement on your interests and experience, CV (including a possible list of publications and the contact info of two academic references), and university transcripts. Severely disabled persons are given preferential consideration if they are equally suitable.

The review of applications will begin in October 2020 and continues until the positions are filled.

More information can be found at https://uni-tuebingen.de/forschung/forschungsschwerpunkte/-exzellenzcluster-cmfi/aktuelles/stellenangebote and http://www.baumdickergroup.de/-index.php/join-us "franz.baumdicker@gmx.de" <franz.baumdicker@gmx.de>

UZurich ComputationalEvolBiol

PhD thesis in computational ecology and evolutionary biology

A Ph.D. studentship in computational biology is available in the laboratory of Andreas Wagner at the University of Zurich. We are looking for a researcher to study the assembly of microbial communities using computational modeling. The project will use genome-scale metabolic models to predict the stability, diversity, and composition of microbial communities from first principles of metabolic biology. It may also study how ecological and evolutionary processes interact during community assembly. Lab members have diverse backgrounds and research projects, but are unified by their interests in life???s fundamental organizational principles. Ongoing projects cover a broad range of topics, including the influence of cross-feeding on microbial community diversity, and the structure of adaptive landscapes (e.g., San Roman and Wagner,PLoSComp.Bio.2018, Zheng et al. Science 2019).

The successful candidate will have strong mathematical or computational skills, and a background in biology, bioinformatics, computational biology, biochemistry, biophysics, or related subjects. Fluency in a major programming language,such as python is essential. Familiarity with computational models to analyze complex metabolic systems, such as Flux Balance Analysis will be a plus. Applications without a demonstrated interest

or research history in fundamental ecological or evolutionary questions will not be considered further. We are looking for an individual with a Masters Degree or equivalent, who is highly self-motivated and can work independently.

The working language in the laboratory is English. German skills, although helpful, are not essential. Zurich is a highly attractive city in beautiful surroundings, with a multinational population, and many educational and recreational opportunities.

To be considered, please send a single (!) PDF file merged from the following parts to jobs.wagner@ieu.uzh.ch: CV including publication list, academic transcripts, a statement of research interests not exceeding three pages, and contact information for three academic references. Please include the word ???COMPPHD21??? in the subject line. Applications will be considered until November 1 2020.The position is available from April 2021.

Annette Schmid Administrative Assistant of Prof. A. Wagner / HR University of Zurich Institute of Evolutionary Biology and Environmental Studies Wagner lab, Y27-J52 Winterthurerstrasse 190 CH-8057 Z??rich Switzerland Mail to: annette.schmid@ieu.uzh.ch Phone +41 (0)44 635 61 42 Fax +41 (0)44 635 61 44 at the office on Monday and Thursday

"jobs.wagner@ieu.uzh.ch" <jobs.wagner@ieu.uzh.ch>

UZurich EvolutionaryEcol

PhD position in Evolutionary Ecology (4 years): Does selection for disease resistance vary along an elevation gradient?

Theory predicts resistance to evolve under pathogen-imposed selection, yet evidence for pathogen-mediated selection to generate the observed diversity in resistance has remained scarce. Biodiversity and ecosystem productivity increase toward low latitudes and elevations, generating corresponding increases in the intensity of species interactions. However, the evolutionary consequences of such variation in the intensity of species interactions are largely unknown.

The aim of this PhD project is to study resistance variation in Plantago lanceolata across an elevation gradient in Alpine populations in Switzerland through a combination of field transplantation and laboratory inoculation experiments, and through an analysis of variation in resistance-relevant genes.

Applications are invited for a 4-year PhD position to study the evolution of disease resistance in natural plant populations by combining ecological, evolutionary and molecular approaches. Motivated students with a MSc degree in evolutionary biology, ecology, molecular biology, plant biology, or other related fields are encouraged to apply. Prior expertise in experimental design, statistical analysis, population genomics or bioinformatics are a bonus, but your most important assets are enthusiasm for research, motivation to learn new things, and ability to work independently while being an active member of a research team.

The working language is English. German skills, although helpful, are not essential.

The project is supervised by Prof. Anna-Liisa Laine and Prof. Andreas Wagner at the University of Zurich. The Laine Lab (http://www.laineleb.net) has broad expertise in studying the ecological and evolutionary dynamics of species interactions in natural populations (e.g. Laine et al. 2019 eLife, Halliday et al. 2020 Nature EcoEvo). The Wagner lab (http://www.ieu.uzh.ch/-wagner/index.html) is broadly interested in evolution and life's fundamental organizational principles, with ongoing work in the lab ranging from the directed evolution of enzymes to laboratory evolution in E.coli and computational analyses of genetic networks (e.g., Zheng et al, Science 2019; Payne and Wagner, Science 2014).

The city of Zurich is regarded as having high quality of life and standard of living with remuneration to match. During hot summers the lake, river, and many outdoor pools provide cooling opportunities, and the close-by Alps cater for many summer and winter outdoor activities. Local and regional (Europe) rail networks meet at Zurich's main train station and provide convenient and low environmental-impact travel to many European cities. The city's international airport is convenient when required.

How to apply:

please send a single (!) PDF file merged from the following parts to: jacqueline.moser@ieu.uzh.ch with Subject line PhDRESISTANCE20

-———————————— CV (with possible publications included)

-———————————— a copy of your academic transcript records

-———————————— contact details of two references (e.g. MSc thesis supervisor)

-———————————— a cover letter (MAX 1 page) with a description of your researcher interests and

why you would be a suitable candidate for the project

Place of work

Irchel Campus, University of Zurich, Zurich

Start of employment

Applications will be considered until the position is filled. The position is available from January 1, 2020.

"Laine, Anna-Liisa" <anna-liisa.laine@ieu.uzh.ch>

VirginiaCommonwealthU Bioinformatics

The Cannon laboratory in the Life Sciences Department's Center for Biological Data Science at the Virginia Commonwealth University is seeking highly motivated graduate students to join the lab. Our lab operates at the intersection of engineering, mathematics, biology, evolution, and computer science to develop bioinformatic software to perform advance data analysis of biological systems. Through extensive collaboration with experimental laboratories, we apply statistical methods, mathematical models, and machine learning techniques to elucidate underlying biological phenomenon from genomic and other cellular datasets. Using these same methods we also aim to predict and optimize system behavior in response to various inputs which can be used to guide future clinical interventions in the treatment of diseases such as HIV and Cancer.

Interested candidates must have a Bachelor of Science degree and have a strong background in biology, mathematics, engineering, bioinformatics, and/or computer science. Excellent oral and written communication skills are required as is the ability to work as part of a team. To apply, send a cover letter, and CV to: cannonlc@vcu.edu.

Bret Boyd <boydbm@vcu.edu>

VriginiaCommonwealthU InsectSymbioses

The Boyd lab at Virginia Commonwealth University is currently seeking a graduate student to start in the fall of 2021. My research group studies the evolution of insect-microbial partnerships. Over the last 480 million years, insects have repeatedly formed partnerships with microbes to gain novel and adaptive functions. The gain of beneficial partners has been particularly important for the evolution of vertebrate parasitism by insects. My lab is currently focused on understanding the roles of beneficial microbes in parasitic insects, with multiple lines of research on both blood and feather feeding lice. The successful applicant will have opportunities to study one or more elements of the louse microbiome and how each element has contributed to the evolution of insect parasitism. The student will gain experience in bioinformatics; phylogenetics and phylogenomics; comparative phylogenetics; genome sequencing, assembly, and annotation; comparative genomics; entomology; and molecular biology.

My lab is located in the heart of the VCU Monroe Park Campus in Richmond, Virginia, USA. The VCU campus is integrated into the downtown area, with close access to restaurants and the James River.

PhD students will apply through the Integrative Life Sciences program and Masters students will apply through the Bioinformatics program.

Integrative Life Science PhD program: https://lifesciences.vcu.edu/academic-programs/phd-in-integrative-life-sciences/ Masters in Bioinformatics: https://cbds.vcu.edu/academics/graduate/ Candidates should have a background in a relevant field (biological sciences, bioinformatics, entomology, or microbiology) and be willing to work with collaborators at other US institutions. Experience with molecular biology, bioinformatics, and phylogenetics is preferred. To learn more about my research, please visit my lab page at https://rampages.us/bboydlab/ Interested applicants should submit a cover letter describing your interest, relevant experience, and career goals and a CV to boydbm@vcu.edu.

Bret Boyd <boydbm@vcu.edu>

WilliamMaryU PlantConservation

MS graduate position(s) at the intersection of Conservation, Data Science, and Genomics @ William and Mary

The Puzey Lab (https://puzeylab.weebly.com) is looking for 1-2 new M.S. graduate students to begin in Fall

2021. We are looking for students who are passionate about plants, conservation, and/or genomics. The lab uses a range of big-data approaches to address pressing conservation questions Specifically, we are interested in using milkweed plants (Asclepias) and its associated insect herbivores (monarch butterfly, milkweed beetle, milkweed bug, etc.) as a model to understand how the Anthropocene has impacted plant and insect interactions.

Experience with GIS and/or Python is desirable.

Please email Josh Puzey (jrpuzey@wm.edu) for additional information.

Chartered in 1693, William and Mary (W&M) is the second oldest school in the US and located in historic Williamsburg, VA. W&M offers a two-year, research-intensive M.S. program where students are supported by teaching assistantships and full tuition waivers. For many students, getting a Master's degree in two years while earning grants and publications allows them to gain admittance to high-profile Ph.D. programs or take that next career step.

With a low student to faculty ratio (8-10 new students and 23 full-time faculty), we can offer an intimate and highly personalized research and education experience rarely attainable at larger universities. Our graduate students also work closely with and mentor undergraduates, offering numerous informal teaching and personal development opportunities.

Additional information can be found: https://-www.wm.edu/as/biology/graduate/index.php The GRE is not required for admission.

Joshua Puzey <jrpuzey@gmail.com>

Jobs

ArizonaStateU BiodiversityDataPortalManager

The School of Life Sciences at Arizona State University (https://sols.asu.edu/) is seeking a part-time Research Analyst (biodiversity data portal manager). The position is part of a dynamic, collaborative Biocollections and biodiversity data science group of faculty, staff, students, volunteers, and other researchers that recently relocated into a unified, 28,000 sq. ft. facility. This new and highly accessible infrastructure is located ca. 2 miles from the main ASU Tempe Campus, and forms part of ASU's BioKIC Biodiversity Knowledge Integration Center (https://biokic.asu.edu/). As of 2018, our facility and personnel also constitute the primary Biorepository for NEON, the National Ecological Observatory Network (https://biorepo.neonscience.org).

The part-time position is supported by an award from the National Science Foundation, Advancing Digitization of Biodiversity Collections program, for the three-year project "Digitization Thematic Collections Network: Collaborative Research: Building a global consortium of bryophytes and lichens: keystones of cryptobiotic communities" (https://www.nsf.gov/awardsearch/-showAward?AWD_ID=3D2001394). A central objective for the 25 participating U.S. herbaria is to image and digitize associated metadata for 1.2 million bryophyte and lichen specimens, while also integrating available DNA data, in order to support broadly impacting future evolutionary and ecological research. Arizona State University is among nearly one dozen primary awardee institutions in the network, and will be responsible in particular for developing, hosting and managing the network's biodiversity data portal and community of contributors and users. Access and use of the data portal is facilitated through the Symbiota software platform (http://symbiota.org/), which is being further developed by members of BioKIC.

A wide range of applicant profiles will be considered; and hence candidates with diverse backgrounds are encouraged to apply. Working partly or entirely remotely is possible. Prior inquiries to nico.franz@asu.edu are encouraged.

For more information, and to submit an application, go to: https://sjobs.brassring.com/TGnewUI/-Search/Home/Home?partnerid=3D25620&siteid=-5494#jobDetails=4094868_5494 *Nico M. Franz, Ph.D.*

Professor & Curator of Insects Director of Biocollections & BioKIC School of Life Sciences, PO Box 874108 Arizona State University, Tempe, AZ 85287-4108

E-mail: nico.franz@asu.edu

nico.franz@asu.edu

BotanicalResInstTexas ConservationBotanist

Conservation Botanist, Full Time

The Botanical Research Institute of Texas (BRIT) seeks a Conservation Botanist to lead the institution'Âs Plant Conservation Program. The Conservation Botanist pursues original research in plant conservation, primarily in Texas. Areas of focus can include botanical and ecosystem exploration focusing on rare and endangered taxa, restoration ecology, ex situ cultivation, seed banking, conservation genomics, and/or comparable fields in plant conservation. The Conservation Botanist is expected to maintain an active research program as measured by scientific peer-reviewed journal publications, grant-funded proposals in support of research, collections management and development, collaborations with colleagues, outreach activities, participation in professional meetings, and contributions to graduate programs associated with local universities with which BRIT partners. The position often works with state and federal conservation agencies.

Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

The Conservation Botanist is responsible for establishing and leading research projects focused on the conservation of the plants of Texas and adjacent areas; overseeing seed collecting projects and managing the BRIT conservation seed lab and collection; writing grant proposals and managing grant-supported projects as a principal investigator or as part of multi-investigator teams; disseminating the results of projects through peer-reviewed publications, professional meetings, project reports, and other venues; supervising grant-funded staff, volunteers, and students as needed; serving as BRIT'Âs conservation officer to the Center for Plant Conservation; organizing and facilitating the biennial Texas Plant Conservation Conference; and interfacing with other conservation organizations and agencies to strengthen a statewide conservation network.

A Ph.D. degree in conservation biology, botany, natu-

ral resources, restoration ecology, or related field is required along with ability and experience conducting and publishing original research, success with raising funds from grants or foundations, state and federal agencies, etc., demonstrated fieldwork competencies, and training and/or experience analyzing biological data.

Please see the full job description for a more detailed list of job tasks and applicant qualifications: http://brit.org/sites/default/files/-ConservationBotanist_FullDescription.pdf BRIT strives to maintain a positive working environment focused on growth and success of individuals, working together in a collaborative, professional manner, with communication a priority.To apply, please submit a cover letter, Research Statement, and CV as a single pdf document to:brithr@brit.org.Application review will begin November 1st, 2020, and continue until the position is filled. Earliest start date is January 2021. Actual start date is negotiable. BRIT is an Equal Opportunity Employer.

Manuela Dal Forno, Ph.D. | Research Botanist| BRIT'ç |817-332-4441 ext. 248| 817-332-4112 fax |mdalforno@brit.org|BRIT.org| 1700 University Drive, Fort Worth, Texas 76107-3400 USA

Preferred Gender Pronouns: she/her/hers

Manuela Dal Forno <mdalforno@brit.org>

ColoradoStateU LabManager ConservationGenomics

Lab and Collections Manager Position: Conservation Genomics, Colorado State University

The Ruegg Lab at Colorado State University is seeking a highly organized, enthusiastic, and motivated scientist to fill a Conservation Genomics Lab and Collections Manager position. The successful candidate will work closely with our multi-disciplinary team of technical staff, graduate students, senior researchers, post-docs and faculty within the Biology Department at Colorado State as well as part of the multi-institutional Bird Genoscape Project. For more information on our research please see the Bird Genoscape Project website (https://birdgenoscape.org) as well as the Ruegg lab website (https://sites.google.com/rams.colostate.edu/-ruegglab/home).

Duties will include, but are not limited to:

Preparing whole genome sequencing libraries.Genotyping SNPs using Fluidigm equipment and assays.DNA extractions from feathers, blood, and tissue, as well as museum samples.Managing and training undergraduate volunteer and work study students.Ordering supplies and equipment maintenance.Curating a 200,000+ blood, feather, and tissue sample collection.Renewing permits and submitting annual reports to appropriate agencies.Maintaining collaborator relations, shipping sampling supplies, and receiving samples.Maintaining compliance with environmental and safety procedures.Organizing lab events and maintaining lab website and social media pagesManaging written protocols, Standard Operating Procedures, etc. for lab and field work.

Minimum Qualifications Include:

Bachelors or Master's degree in biology, genetics or a related field is preferred. Extremely strong organization skills and the ability to work as part of a team as

well as accomplish tasks independently.

Excellent communications skills and a willingness to follow instructions and

direct others when needed.

Extreme attention to detail. Excellent and thorough laboratory notebook maintenance abilities. Experience with basic and intermediate laboratory methods, including pipetting,

PCR, gel electrophoresis, and DNA extraction.

Strong desire to learn new genomic sequencing methodologies.

Also desired:

Experience with whole genome and transcriptome library preparation. Experience with database management.

Start date and duration: Preferred start date is on or before Jan. 15, but is open to negotiation; Initially, the appointment will be for a period of 12 months, with the possibility of extending it to 2 years or more dependent upon performance and the availability of research funds.

Applications: Interested applications should contact Teia Schweizer (Teia.Schweizer@colostate.edu) before Oct. 15. Please include a cover letter, CV, and contact information for 3 references in a single document. In the cover letter please highlight your previous laboratory experience and interest in conservation genomics. This will be a full- time position, with benefits and an annual salary commensurate with experience.

Teia Schweizer <teia@rams.colostate.edu>

FieldMuseum Chicago CuratorOfEntomology

The Field Museum invites applications for an Entomologist position at the Assistant or Associate Curator rank. The Field Museum's Life Sciences Section has a record of scientific excellence in collections-based research. The Field Museum's Entomological collections are global in scope and taxonomically extensive. We seek candidates with a background in insect pollinators or pollination biology that have experience in, or an interest to develop, the integration of this discipline with evolutionary biology, comparative morphology, biogeography, phylogenetics, developmental or molecular biology, or other related fields. A record of collections-based research is desirable.

In addition to developing an externally funded research program, responsibilities will include curation of collections, administration, and participation in public exhibit, education, and conservation programs. Close relationships with local universities provide opportunities for participation in graduate and undergraduate training. A Ph.D. in a relevant discipline must be held by the start of employment. This is a term-renewable position.

Applications must include (in pdf format): a Curriculum Vitae; a statement of research interests and career objectives; and copies of up to 5 relevant publications. Please send application materials to entomology_search@fieldmuseum.org

Review of applications will begin on October 16, 2020.

The Field Museum strives to create a working environment that is free of sexual, racial, and ethnic discrimination, and that promotes human dignity among all staff. As such, it is the policy of the Field Museum to hire without regard to race, religion, color, national origin, age, sex, sexual orientation, disability, or veteran status.

If you are a qualified individual with a disability or a disabled veteran, you may request a reasonable accommodation. The Field Museum strives to ensure that our career website is accessible to all, including individuals with disabilities. Email us at accessibility@fieldmuseum.org if you are unable or limited in your ability to use or access our online application as a result of your disability.

Richard Ree <rree@fieldmuseum.org>

FlindersU Australia MarsupialMammalSkulls

The Weisbecker Lab at Flinders University, South Australia is looking for a Research Assistant for the next 2 years, 4 months to support the collection and analysis of data on within-species adaptive variation of marsupial mammals. Focus will be on the acquisition of 3d data on the skull in populations of threatened marsupials. This opportunity is part of a funded Australian Research Council (ARC) Future Fellowship Project awarded to Assoc. Prof. Vera Weisbecker.

The Weisbecker lab (https://researchnow.flinders.edu.au/en/persons/vera-weisbecker) leads multidisciplinary investigations into mammalian evolution, with particular focus on evo-devo and conservation phenomics. As part of the College of Science and Engineering at Flinders University, our lab is embedded in a vibrant landscape of researchers in evolutionary science, palaeontology/palaeoecology, and conservation science with strong ties to the Australia-wide Center of Excellence for Australian Biodiversity and Heritage (https://epicaustralia.org.au/).

The Research Assistant will be responsible for performing 3D data acquisition, databasing, limited analysis and publication of databases on relevant platforms (particularly MorphoSource); as well as a number of other activities as outlined in the full ad.

Essential skills for this position are a Bachelor of Science or equivalent degree in evolution, palaeontology, zoology, or similar subject; Demonstrated basic R skills; Familiarity with 3D files and related software; Experience of working safely in a laboratory environment; Willingness to learn new techniques and computational methods; Ability to undertake work at different locations in South Australia and possibly interstate as required (subject to COVID-related travel restrictions); Ability to manage scientific data and keep clear and accurate records; Demonstrated effective written and oral communication skills.

Flinders University and the Weisbecker lab are seeking to increase the diversity to improve equal opportunity outcomes for employees, and therefore we encourage female applicants, people with a disability and/or people from Aboriginal or Torres Strait Islander descent to apply.

For the full advertisement, remuneration details, and to apply, visit https://jobs.flinders.edu.au/en/-job/497429/research-assistant . Vera Weisbecker <vera.weisbecker@flinders.edu.au>

HarvardU Bioinformatician

The Harvard FAS Informatics Group is looking for a PhD-level bioinformatician, computational biologist, or population geneticist for a staff scientist position. This individual will collaborate with faculty, post-docs and students to help them arrive at the best analysis procedure for their data, and contribute to the independent research happening in our group. This is a flexible job that provides opportunities for teaching, research, and extensive collaboration, in the context of a stable position in a strong intellectual environment with good work-life balance.

The Bioinformatics group lies at the intersection of scientific research and large scale computational analysis and works with many research groups. We are thus looking for someone who enjoys working on a wide variety of projects across a range of methods, although we are particularly interested in candidates with population genetics experience. Our primary research interests are in comparative genomics and population genetics, and generally focus on using large-scale comparative data to understand the genomics of adaptation.

We are committed to diversity and especially encourage members of underrepresented communities to apply.

Key Responsibilities: -Lead ongoing efforts in the Bioinformatics group to develop methods and resources for non-model and comparative population genomics, and to use these resources to address novel questions in population genomics. -Work closely with Harvard faculty, postdocs, and graduate students to advise on analysis of sequencing data and other biological 'big data', with a focus on population and ecological genomics. -Teach bioinformatics workshops to the Harvard community on topics of interest. -Collaborate with scientists generating sequencing data at Harvard, including participating in the writing and execution of grant proposals with faculty members.

About You: -PhD in evolutionary biology, population genetics, bioinformatics, genomics, or a related field, or a Masters degree with at least 5 years experience with bioinformatics methods. -Strong background in population genetics, with experience in non-model systems preferred. -Expertise in programming languages commonly used in bioinformatics (such as Python or R). -Fluency with Linux shell scripting and high performance computing.

To apply, please submit an application at https://bit.ly/-3c0BgSL. Review of applications will begin immediately, but the position will remain open until filled.

Questions? Contact Tim Sackton (tsackton@g.harvard.edu), Director of Bioinformatics

– Tim Sackton, PhD Director of Bioinformatics Informatics Group Faculty of Arts and Sciences Harvard University

"Sackton, Timothy" <tsackton@g.harvard.edu>

HarvardU EvolutionaryBiology

We are looking for a Research Assistant at the Arnold Arboretum of Harvard University in Boston, MA. The research assistant will work with William (Ned) Friedman, Director of the Arnold Arboretum and Arnold Professor of Organismic and Evolutionary Biology (70% of the time) and to Faye Rosin, Director of Research Facilitation (30% of the time). The Friedman lab covers a broad range of projects (e.g. origin and evolution of flowering plants, plant evo-devo, plant fertilization biology and embryology) and methods (histology and various types of microscopy, molecular biology, greenhouse studies).

The research assistant will work closely with the Principal Investigator and Friedman Lab graduate students on a variety of research projects while providing support to the Director of Research Facilitation by performing a variety of training and lab maintenance duties. This position offers an early-career individual the opportunity to improve thier research and technical skills while studying organismic and evolutionary biology among the Arnold Arboretum's renowned collection of woody plants. Additionally, the research assistant will interact with undergraduates, researchers, and visiting scholars working across a broad range of plant biology-related disciplines at the Weld Hill research facilities.

Please see the full description and apply online here: https://sjobs.brassring.com/TGnewUI/-Search/home/HomeWithPreLoad?partnerid=-25240&siteid=5341&PageType=JobDetails&jobid=-1533395#jobDetails=1533395_5341 Thanks!

Faye

Faye Rosin, PhD Director of Research Facilitation Arnold Arboretum of Harvard University 1300 Centre St Roslindale, MA 02131

phone: (617) 384-5095 fax: (617) 384-6596

frosin@oeb.harvard.edu http://arboretum.harvard.edu/
"Rosin, Faye M" <frosin@oeb.harvard.edu>

KBS MichiganStateU EvolutionaryBiology

The W.K. Kellogg Biological Station (KBS) at Michigan State University (MSU) is accepting applications for an Assistant Professor position, with a preferred start date of August 2021; this is the first of three planned faculty hires. The ideal candidate in this broadly defined search will have a strong conceptual basis to their research, addressing fundamental questions in the fields of ecology and/or evolutionary biology, with the intention to make use of KBS's unique assets. This is a tenure-stream faculty appointment, based at KBS with a joint appointment (and tenure home) in a campus department within the College of Natural Science (https://natsci.msu.edu/) that best fits the candidate's interests and departmental goals. KBS is keenly interested in diversifying its faculty and encourages applications from diverse candidates, including women and minorities.

KBS is a world-renowned biological field station located 65 miles from the MSU main campus (http://-kbs.msu.edu/) that facilitates observational, experimental, and theoretical approaches to research and training ranging from molecules to ecosystems. KBS integrates fundamental research in ecology and evolution with application of this knowledge to sustainable agriculture, restoration, and conservation, and has a strong focus on climate change and interactions among organisms across the tree of life. KBS is unique in the integration of 1,500 hectares of land representative of the diverse aquatic and terrestrial habitats of the region with 30,000 sq. ft. of research buildings, including state of the art laboratory, growth chamber, and greenhouse facilities. This integration enables a variety of major field experiments, including those for an NSF-funded Long-term Ecological Research site, the DOE-funded Great Lakes Bioenergy Research Center, and a USDA-funded Long-term Agroecosystem Research site. There are also outstanding opportunities to collaborate with campus-based colleagues in various departments, several of whom already have major research programs at KBS; a directory of faculty affiliated with MSU's Ecology, Evolution, & Behavior (EEB) graduate degree program is found at https://eebb.natsci.msu.edu/ . Qualifications include a Ph.D. or equivalent in ecology, evolutionary biology, environmental science, geography, or a related field. Post-doctoral experience is preferred. Successful grantsmanship and peer reviewed publications will be important criteria for meeting the position's research expectations. Teaching will include a campus undergraduate or graduate course as well as graduate and postdoctoral training and participation in the KBS academic programs. Service will include participation in KBS, campus, national and international programs as appropriate. Michigan State University is an equal opportunity/affirmative action employer, committed to a policy of nondiscrimination on the basis of race, sex, gender identity and expression, age, religion, color, national origin, disability, veteran status, sexual orientation, or on any other basis prohibited by applicable law.

Applications should include: (1) a cover letter describing the applicant's interest in the position; (2) a curriculum vitae; (3) contact information for three references; (4) a summary of research accomplishments and future research directions; (5) a statement of teaching and mentoring interests and experience; and (6) a statement describing the applicant's past experiences, as well as past activities and planned commitment to promoting diversity, equity, and inclusion (guidance for preparing this statement available at ofew.berkeley.edu/guidelines-applicants-writing-statements). Applications should be submitted online at careers.msu.edu (position #667988). Review of applications will begin 5 October 2020, and will continue until a suitable candidate is identified. Questions regarding this position may be directed to Dr. Jeff Conner, search committee chair (connerj@msu.edu; @JeffreyKConner).

connerj@msu.edu

McMasterU MicrobialEvolution

Tenure-Track Assistant Professor in Microbial Ecology

McMaster University is located on the traditional territories of the Haudenosaunee and Mississauga Nations, and within the lands protected by the Dish with One Spoon wampum agreement.

Position Description The Department of Biology at Mc-

Master is seeking candidates to fill a tenure-track faculty position at the Assistant Professor level in the area of Microbial Ecology. The preferred start date for the appointment is July 1, 2021.

The successful candidate must have a Ph.D. degree in Biology, Life Sciences or a related discipline, a record of research excellence in microbial ecology, strong communication skills, and demonstrate a commitment to working effectively with individuals from diverse communities and cultures.

The successful candidate should clearly demonstrate the potential to develop a prominent, externally funded research program, and be strongly committed to excellence in teaching and mentorship at the undergraduate and graduate levels. All potential candidates whose research focuses on any aspect of microbial ecology are encouraged to apply; however, we are particularly interested in those examining plant-microbe interactions, and those employing -omics and meta-omics approaches (genomics, transcriptomics, proteomics, and/or metabolomics) and bioinformatic tools to examine these interactions.

The Department of Biology is a thriving community of scientists working in diverse areas, who are committed to excellence and innovation in research, training, teaching, and outreach. The Department has 30 full time research-active faculty members, 2 teaching-track faculty members, ˜80 graduate students, and ˜900 undergraduate students. For more information on the Department, please visit https://biology.mcmaster.ca/ . McMaster University is a globally renowned institution of higher learning and a research community committed to advancing human and societal health and well-being. Our focus on collaboratively exchanging ideas and approaches makes us uniquely positioned to pioneer ground-breaking solutions to real-world problems leading to a Brighter World. The Faculty of Science works to create global impact by advancing scientific discovery and knowledge, and promoting greater understanding. Our innovative, interdisciplinary approach generates new methods and insights, results, and lasting change.Go

Commitment to Inclusive Excellence The diversity of our workforce is at the core of our innovation and creativity and strengthens our research and teaching excellence. In keeping with its Statement on Building an Inclusive Community with a Shared Purpose, McMaster University strives to embody the values of respect, collaboration and diversity, and has a strong commitment to employment equity.

The University seeks qualified candidates who share our commitment to equity and inclusion, who will contribute to the diversification of ideas and perspectives, and especially welcomes applications from First Nations, Métis and Inuit peoples, members of racialized communities ("visible minorities"), persons with disabilities, women, persons who identify as 2SLGBTQ+.

We invite all applicants to complete a brief Diversity Survey, which takes approximately two minutes to complete, through McMaster'Âs application submission portal. All questions are voluntary, with an option to decline to answer. All information collected is confidential and will be used to support efforts to broaden the diversity of the applicant pool and to promote a fair, equitable and inclusive talent acquisition process.

Job applicants requiring accommodation to participate in the hiring process should contact the Office of the Dean, Faculty of Science at baileyd@mcmaster.ca to communicate accommodation needs.

How to Apply Complete applications must be made online at https://hr.mcmaster.ca/careers/current-opportunities/ (Faculty Positions, Job 34307) by the deadline to the attention of Dr. Marie Elliot, Professor & Chair, Department of Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario, L8S 4K1.

A complete application consists of: - a cover letter (including a statement regarding whether the applicant has Canadian citizenship / permanent resident status (see below)) - a current Curriculum Vitae, and three (3) representative publications - a statement of research - a statement of teaching philosophy and interests - a statement of experience and plans for advancing equity, diversity and inclusion in post-secondary education, community-based or other professional settings (2-page maximum) - the names and full contact information of at least three referees. Letters of reference are not required and will not be reviewed at the application stage; the Department will request letters of

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MississippiStateU ConservationBiology

GIS Coordinator (Geospatial Web-Developer/Analyst)

project DESCRIPTION The Southeast Conservation

Blueprint (Blueprint) was developed in 2016 under direction of the Southeast Conservation Adaptation Strategy (SECAS) initiative. The Blueprint was built explicitly from biological/ecological objectives, and characterizes the network of lands and waters necessary for sustainability of ecological resources across the Southeast and U.S. Caribbean. This work has culminated into a static map that represents areas of optimum land conservation, management and restoration to support decisions of conservation planners and managers. Efforts are ongoing to provide an up?\to?\date, stakeholder?\informed, data?\driven approach to implementing updates to the Blueprint, particularly in the Middle Southeast portion of the geography. This includes characterizing areas for specific conservation actions within stakeholder?\identified priority ecosystems.

We are seeking a qualified individual experienced in geospatial web-development to join our team of GIS developers/analysts to build web-enabled geospatial applications that will allow users to visualize maps of Blueprint conservation priority areas, as well as take a leadership role in building next?\generation blueprint user capabilities. This includes developing applications that will allow users to select geospatial data measures, weight and choose directionality on those selected measures, and visualize components of the Blueprint under their priorities.

summary of POSITION The GIS Coordinator will work closely with an interdisciplinary team of scientists, including faculty and research staff at Mississippi State University (MSU), and partners within federal and state agencies and other organizations representing project end users (stakeholders). The successful candidate for this position will work directly with this team to support web-visualization of geospatial elements of project inputs and deliverables. This will include compilation of geospatial data layers and development of optimized, interactive, and web-enabled geospatial decision support applications. The candidate will also lead beta-testing of the application with target user groups, and provide technical support and web application refinement for outreach efforts. This position may require some travel (depending on pandemic status) within the Southeast Region for project team and stakeholder meetings.

The position will be a full-time 12-mo salaried position located in Starkville, MS and will start January 1, 2021 and be funded through December 31, 2021. Opportunities for extension of funding beyond the initial year are a possibility, but not guaranteed. Salary will be commensurate with experience. The position will be located in the Quantitative Ecology and Spatial Technologies Lab (in the College of Forest Resources, Department of Wildlife, Fisheries, and Aquaculture) at Mississippi State University in Starkville, Mississippi. The Department of Wildlife, Fisheries & Aquaculture has ~30 faculty, ~60 graduate students, and 7 administrative support staff (excluding extension and research support personnel). The Department has extensive extension, research, education and service programs in wildlife, fisheries and aquaculture. For additional information see www.cfr.msstate.edu/wildlife/index.asp . Qualifications Minimum Qualifications. The applicant must hold a B.S. in computer science/programming, web development, geography or geosciences, environmental science/natural resources, or other related fields, or other related fields and minimum of 6 years of relevant experience; a M.S. degree and minimum of 3 years of relevant experience; or a Ph.D. with a minimum of 2 years of relevant experience and demonstrated competency. Background with web development and expertise with geographic information systems (GIS) or other related software applications and technologies is required. The applicant must have excellent oral and written communication skills, be self-motivated and creative, and able to work effectively both independently and as part of an interdisciplinary team. Preferred Qualifications. A M.S. or Ph.D. in computer science/programming, web development, geography or geosciences, environmental science/natural resources, or other related fields is preferred. The preferred candidate will also have experience developing web-enabled geospatial data applications, particularly those that enable on-the-fly data processing in a web-user interface. Experience with Full Stack web development, with an emphasis on modern web applications, knowledge of JavaScript development, as well as modern web/UI development (ReactJS), HTML, CSS and creation of RESTful web services with NodeJS and expressJS, are considered valuable assets for this position. The ideal

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SpelmanC Atlanta ResTech MicrobialEvolution

Research Technician Position In Microbial Sexual Behavior and Evolution At Spelman College Atlanta, GA

Applications are invited for a full-time research techni-

cian in the Tekle Lab in the Biology Department at Spelman College Atlanta, GA. General research areas in the laboratory includes eukaryotic microbial diversity, evolution and behavior with emphasis in amoeboid microorganisms (more info here < https://faculty.spelman.edu/-yonastekle/ >). The technician is expected to carry out basic culturing and maintaining of eukaryotic microorganisms, molecular and behavioral studies. Duties will include: DNA/RNA extraction, PCR, genome and transcriptome sequencing, FISH and flow cytometer experiments, light/fluorescence microscopy and bioinformatics analysis. The project will explore gene manipulation with CRISPR-Cas9, familiarity with such technique is a plus. The candidate will also oversee undergraduate researchers.

The candidate should have a Bachelor's degree in biology, molecular biology, biochemistry, bioinformatics or a related discipline and 1-3 years of relevant research experience or equivalent combination of experience, training and/or education is required. The ideal candidate will have experience with basic molecular and cytological techniques, bioinformatics skills and an ability to work well with and supervise minority undergraduate students. Previous experience working with microorganisms, genetic manipulation experiments and programing skills are desirable.

This is a full-time, 2.5 years position renewable each year upon satisfactory performance review. Salary is commensurate with experience and includes benefits.

Please email a letter of interest, CV, and names of and contact informationfor 2 references to ytekle@spelman.edu. Anticipated start date is flexible but ideally September 2020. For more information on the lab: http://faculty.spelman.edu/yonastekle/. Please feel free to email me with questions at the above email address.

Yonas Tekle

Associate Professor Department of Biology Spelman College 350 Spelman Lane SW Atlanta, GA 30314-4399 Office: 404-270-5779

Yonas Isaak Tekle <yonastekle@gmail.com>

UIceland InvertebrateEvolution

Dear Evoldir community

Assistant Professor in zoology of invertebrates at the School of Engineering and Natural Sciences, University of Iceland < https://-radningarkerfi.orri.is/?s=22719&oj_Router=-0%7B%22root%22%3A%22%3Fs%3D22719%26oj_Router%3D1N4IgTg
>

The Department of Biology in the Faculty of Life and Environmental Sciences at the University of Iceland seeks applications for the position of assistant professor in invertebrate zoology.

Field of work

The assistant professor is expected to conduct innovative and independent research focusing on invertebrate biology. The assistant professor is also expected to supervise and teach a course on invertebrate biology at the Bachelor level and participate in or develop courses in her/his area of specialty at Bachelor and/or master's level. In addition to research and teaching, the successful applicant is expected to supervise MS and PhD students, attract third-party funding for research, and participate in departmental activities and development. This is a tenure-track position with an initial appointment of five years. A successful applicant with suitable qualifications is eligible to apply for promotion to associate or full professorship upon appointment.

Qualification requirements

-—— —A Ph.D. degree in biology. -—— —An excellent record of research in invertebrate biology, considering the applicant's academic age. -—— —Substantial teaching experience and motivation for teaching development. -—— —Initiative and organization skills will benefit the applicant. -—— —Strong communication and interpersonal skills. -—— —Proficiency in written and spoken English.

The hiring process will seek to identify candidates who best fit the needs and requirements of the Faculty of Life and Environmental Sciences.

Application process

Please include the following in the application: a cover letter, CV, list of publications and a concise description of proposed research, and teaching philosophy. The applicants should identify their most significant publi-

cations (up to eight publications) and submit a copy of each publication as a pdf file; for papers with multiple authors, the applicants should account for their own contribution to the work. The applicant must supply the name and contact information of three persons willing to provide a reference. Applications and documents not submitted online shall be submitted in duplicate to the University of Iceland Division of Science and Innovation, SÃmundargata 6, 101 Reykjavík. The successful candidate will be hired for five years with the possibility of a permanent contract at the end of this period, cf. paragraph 3, Article 31 of the Regulation for the University of Iceland no. 569/2009.

Processing of applications, evaluation of applicants' competence and hiring shall be in accordance with the Act on Public Higher Education Institutions no. 85/2008 and the Regulation for the University of Iceland no. 569/2009. In accordance with Article 38 of the Regulation for the University of Iceland no. 569/2009, the rector may promote a new employee to the position of senior lecturer or professor if the individual in question meets requirements.

All applications will be answered, and applicants will be informed about the appointment when a decision has been made. Applications may be valid for six months.

Appointments to positions at the University of Iceland are made in consideration of the Equal Rights Policy < https://english.hi.is/university/equal_rights_policy > of the University of Iceland.

The University of Iceland has a special Language Policy < https://english.hi.is/university/-university_of_iceland_language_policy >.

The University of Iceland is a growing community of knowledge and is a very dynamic and interesting workplace. Our values are academic freedom, professionalism, and equality. The University strives to provide flexibility and encourages participation in the progression of the studies and research in all fields within the realm of the University. The School of Engineering and Natural Sciences employs ca. 390 people involved with teaching and research. The School offers an international working environment, with the number of international employees and students increasing each year. Currently about quarter of all employees and graduate students are international.

This is a full-time position on a tenure track and the starting date is no later than 1 February 2021.

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.-mcmaster.ca/~brian/evoldir.html

UK LabTech DNAbarcoding

Laboratory technician in DNA-based monitoring Location: Egham, Surrey Salary: 24,000 per annum Start: Immediately Duration: Permanent

Applications are invited for a laboratory technician to work with an expanding science-based start-up company. This is primarily a laboratory-based role focusing on analysis of samples for our commercial clients using DNA metabarcoding and other techniques. You will also assist with R&D projects from time to time. The candidate will report to our Lead Scientist and will also work closely with other members of the science team.

Applicants should have significant experience of molecular laboratory work and enjoy working in a dynamic, collaborative, team environment. Experience of working with environmental DNA or metabarcoding would be an advantage, but is not essential.

NatureMetrics is a high-growth start-up bringing DNA-based tools to environmental managers to measure and monitor biodiversity. We have grown steadily for three years and are now expanding following a recent investment raise. We are a team of bright, enthusiastic individuals who are excited to be breaking new ground and disrupting the world of biodiversity monitoring. We take great pride in our work and are seeking new team members who will do the same.

The full specification can be found below. To apply, please email careers@naturemetrics.co.uk including a CV and covering letter, and stating that you are applying for the laboratory technician job. There is no fixed deadline for applications, and the position will be held open until we find the right candidate.

Roles & responsibilities

General Carry out routine analysis of clients' samples following established protocols. Includes DNA extraction from various different sample types, as well as QC testing and PCR. Assist with R&D projects where required, working with the wider science team. Contribute to the smooth running of the laboratories

Documentation Keep detailed laboratory notes following our standard procedures Follow internal protocol for sample tracking & documentation

Communication Collaborate closely with other members of the laboratory team, and maintain ongoing communication to ensure efficient planning and prioritisation of tasks. Keep Lab manager informed on laboratory matters, including stock levels.

Safety Use COSHH and risk assessments, compliance with company procedures and HSE legal requirements

Person Specification

Education & qualifications No specific level of education is required, but you must have at least two years experience working in a molecular laboratory in either an academic or industry setting.

Specialist knowledge, skills & experience High level of attention to detail is vital Must be able to use pipettes with confidence and precision

Interpersonal & communication skills Organised & meticulous. Able to work independently and as part of a team. Willing to follow established protocols

Additional requirements All applicants are legally required to demonstrate the right to work/permission to work in the UK.

Terms and Conditions Location NatureMetrics Ltd, CABI Site, Bakeham Lane, Egham, Surrey, TW20 9TY Working pattern and hours The postholder is expected to work 40 hours a week Monday to Friday with core hours between 10am and 4pm.

Length of appointment Full time, permanent.

Jasmin Stewart <Jasmin@naturemetrics.co.uk>

UKonstanz EvolutionaryBiology

At the University of Konstanz in Germany we have an opening for an Assistant Professor/Jr. Group leader in evolutionary biology

(earliest starting date November 2020)

The person we are looking for should be an evolutionary biologist who works on questions in either molecular evolution, and/or the genomics of speciation and adaptation. The position is intended for a Ph.D. biologist, ideally with prior postdoc experience, a strong publication record in evolutionary biology, and with expertise in evolutionary genomics. A total of three research groups two of which are headed by Junior Group Leaders make up the evolutionary biology group (˜20 members total in the lab), in the Department of Biology at the University of Konstanz: http://www.evolutionsbiologie.uni-konstanz.de/index.php?section=172 Our taxonomic emphasis is on fish, particularly on cichlids fish, but also other fish model systems are used in our research on comparative and speciation genomics and comparative developmental biology. We are especially interested in the origins of (convergently evolved) adaptations, speciation, and phylogenomics of the cichlid fish adaptive radiations from Nicaragua and Africa. We are open to consider anyone investigating other interesting taxa and questions. For publications of the lab see:

http://www.evolutionsbiologie.uni-konstanz.de/-index.php?section=92 . Space in a modern fish facility is available and the exclusive support of a 50% technician will be provided to this new group. Wet lab space, equipment, departmental facilities, including core-facilities in proteomics and genomics, and annual financial support for research expenses and student support, are provided by the University of Konstanz. The lab has sufficient space and state-of-the-art equipment for research in genomics, molecular, and developmental biology.

The University of Konstanz and the Department of Biology are among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern border between Germany and Switzerland. The position comes with a competitive salary, and excellent health and retirement benefits.

Appointments are initially for three years and are renewable for several years after that. Habilitation is possible, and a modest amount of teaching (in English at the BSc and MSc level) is required. The Assistant Professor is expected to acquire external funding and to supervise undergraduate, and graduate students as well as postdocs.

The University of Konstanz is an equal opportunity employer and tries to increase the number of women in research and teaching. The University of Konstanz is committed to further the compatibility of work and family life and has onsite child care facilities https://www.uni-konstanz.de/en/-equalopportunities/family/childcare/kinderhaus-knirps-co-child-care-centre/ . Additional information contact: a.meyer@uni-konstanz.de, phone: +49 7531 884163.

For our current research output see: https://scholar.google.com/citations?user=-qf6eWtgAAAAJ&hl=en&oi=ao Applications - including a statement of research interests, research plans, a full CV and names and email addresses of 3 referees - should be emailed to: a.meyer@uni-konstanz.de.

Applications should be received by September 30th, 2020.

Prof. Dr. Axel Meyer Lehrstuhl für Zoologie undEvolutionsbiologie Department of Biology Building M, Room M806 University of Konstanz 78457 Konstanz Germany

fon + 49 (0)7531 88 4163 fax + 49 (0)7531 88 3018

secretary: Christiane.Weber@uni-konstanz.de tel. + 49 (0)7531 88 3069

http://www.evolutionsbiologie-uni-konstanz.com/ Axel Meyer <prof.dr.axel.meyer@gmail.com>

ULisbon ResTech Bioinformatics

A full-time Research Technician position in Molecular Biology is available within an ERC consolidator grant at the laboratory of Sara Magalhães (https://mitesquad.weebly.com/) at the Centre for Ecology, Evolution and Environmental Changes (http://-ce3c.ciencias.ulisboa.pt/), University of Lisbon, Portugal.

The candidate is expected to have a Master degree in Biology, a thorough scientific and/or professional experience in molecular biology, to be fully independent in applying several techniques (DNA extraction for Next Generation Sequencing, diagnostic PCRs and qPCRs) and in organizing his/her work. Preference will be given to candidates with experience in bioinformatics (processing of Next Generation Sequencing data).

We are especially seeking a candidate who enjoys working in a group, respects the lab tidiness and appreciates learning tasks unrelated to molecular biology (he/she will assist occasionally the other lab members in tasks involving plant and spider mite manipulation).

Applicants should follow the procedure in the attached document. In case of doubt, please contact us at snmagalhaes@fc.ul.pt.

Application deadline: October 14, 2020 Starting date: flexible (ideally November 2020). Duration: 20-months with the possibility of an extension until the end of project. Place: Faculdade de Ciências da Universidade de Lisboa. Project title: Competition under niche construction (COMPCON) Funding: ERC Consolidator Grant, 2017-2022.

Sara Magalhães, Assistant Professor, https://-mitesquad.weebly.com/ Centre for Ecology, Evolution and Environmental Changes http://-ce3c.ciencias.ulisboa.pt/ Faculdade de Ciencias da Universidade de Lisboa http://www.fc.ul.pt/ Campo Grande Lisboa researcher ID: http:/-/www.researcherid.com/rid/B-9673-2012 Sara Magalhaes <snmagalhaes@fc.ul.pt>

UMissouri InformaticsDirector

Job ID 34286

Director 'V Informatics Research Core Facility

Job Description

We are looking for an experienced computational biologist to lead and contribute to computational discovery and development of bioinformatics at MU. The director will oversee the implementation and ongoing administration of the Informatics Research Core facility (IRCF). The individual is expected to build effective collaborative relationships with researchers and the campus-wide data science and informatics community in order to promote successful publications and funding and in doing so, provide coordination and consulting support for key software platforms that ensure the application of state-of-the-art analytic technologies to basic, applied and translational research. In this role, the director will be expected to bridge the gap between the researcher's need for tools to analyze, visualize, integrate and understand their research data. The director will also develop a sustainable computational training program for graduate students, post-docs and faculty that will ensure MU investigators can expand their labs data analytic capabilities to remain competitive in their respective fields of study. The director will help coordinate efforts to collect, analyze, and preserve data toward a broader mission to sustain scalable approaches for interfacing with other core facilities as increasingly large quantities of study data accumulate from a variety of scientific instruments, particularly next generation sequencing projects involving single cell and RNA analysis. Another key contribution will be the participation in individual and large center proposals.

Qualifications

Minimum qualifications:

Ph.D. in Bioinformatics, Computational Biology, Computer Science or related fields with at least 4 years of post-doctoral or work experience.

Candidates will be evaluated on: - Proven record of ap-

plying or developing computational biology approaches to generate new hypotheses. - Proven record of conducting collaborative research. - Proven record of contributing to cross-disciplinary projects and working in large teams. - Excellent interpersonal and communications skills and ability to lead in a matrix organization - Fluency in programming and scripting languages is required (e.g., R, Python, Perl) and their use in a LINUX environment. - In depth knowledge of integrative omics analysis, next generation sequencing, data mining, complex data analysis and statistics. - Experience in computational approaches for whole genome analysis and single cell sequencing technologies is an additional benefit.

Application Materials

Application, Curriculum Vitae, List of References

Salary

Salary is commensurate with experience

https://erecruit.umsystem.edu/-psp/tamext/COLUM/HRMS/c/-HRS_HRAM_FL.HRS_CG_SEARCH_FL.GBL?Page=-HRS_APP_JBPST_FL&Action=U&SiteId=-9&FOCUS=Applicant&SiteId=9&JobOpeningId=-34286&PostingSeq=1 "Warren, Wesley" <warrenwc@missouri.edu>

UNorthCarolina Charlotte BioinformaticsGenomics

Tenure-Track Assistant Professor of Bioinformatics and Genomics in the Department of Bioinformatics and Genomics at the University of North Carolina at Charlotte.

The Department of Bioinformatics and Genomics at the University of North Carolina at Charlotte seeks applicants for a tenure-track Assistant Professor of Bioinformatics and Genomics, working in any organismal system, whose research has the potential to relate to the areas of human health and nutrition. We are especially interested in candidates with expertise in omics approaches.

The successful candidate in this position will work primarily on the North Carolina Research Campus (NCRC) in Kannapolis, NC, located a 30 minute drive north of the Charlotte metro area. The NCRC is a unique public-private partnership. NCRC is home to researchers from eight universities, including UNC Charlotte, UNC Chapel Hill, NC State, Duke, and others, as well as several industry partners (visit http://-ncresearchcampus.net for more information).

The successful candidate is expected to develop and sustain an independent and externally funded research program. Applicants are expected to present plans in their statements to collaborate with faculty at NCRC, in addition to faculty on the UNC Charlotte main campus and researchers from other domestic and international research institutions if possible.

In addition, the successful candidate is expected to contribute to and expand the teaching of our undergraduate and graduate curricula (https:/-/cci.uncc.edu/academics/bioinformatics/courses/-undergraduate-courses & https://cci.uncc.edu/-academics/bioinformatics/courses/graduate-courses).

Required Qualifications: Applicants should possess a Ph.D. in the biological, computational, or related sciences. Candidates must demonstrate a record of postdoctoral training, peer-reviewed publications, potential to acquire extramural funding, support and foster diversity, and an ability to teach and mentor at the undergraduate and graduate levels.

The Department is part of the College of Computing and Informatics and supports BS, BA, MS, and Ph.D. programs with a diverse body of faculty, postdoctoral scholars, graduate and undergraduate students (visit https://-cci.uncc.edu/departments/bioinformatics/about-big for more information).

As an EOE/AA employer and an ADVANCE institution that strives to create an academic climate in which the dignity of all individuals is respected and maintained, the University of North Carolina at Charlotte encourages applications from all underrepresented groups. Candidates will be asked to discuss how their qualifications, experience, and professional background prepares them to incorporate diversity and inclusion into their teaching, research, and service activities.

Applications must be made electronically at https:/-/jobs.uncc.edu (position #001073) and must include a cover letter, CV, contact information for at least three referees, a statement of research interests (max five pages), a statement of teaching philosophy (max two pages), a statement of fostering diversity (max two pages), and PDFs of three peer-reviewed publications. Please highlight potential contributions to UNC Charlotte and the NCRC within the statement of research interests.

The candidate chosen for this position will be required to provide an official transcript of their highest earned degree and submit to a criminal background check.

For questions about the position or the application process, please contact Daniel Janies djanies@uncc.edu

Adam Reitzel <adam.reitzel@uncc.edu>

UNotreDame EvolutionEcology

Assistant Professor of Ecology, Evolution, or Environmental Change

The Department of Biological Sciences at the University of Notre Dame invites applications for a tenure-track Assistant Professor who will enhance existing excellence in ecology, evolution, and environmental change. We are searching broadly for creative and collaborative individuals who are: (1) working at any spatial scale, from local to global, (2) studying any level of biological organization, from genes to ecosystems, and (3) using any mode of inference, from empirical to theoretical. Applicants should demonstrate research excellence that crosses traditional disciplinary boundaries; ongoing growth in the department will emphasize new hires who use quantitative and/or integrative approaches to study biological processes. Successful candidates will benefit from Notre Dame's 3000-ha field station, which is home to NEON's Great Lakes domain (http://underc.nd.edu/), superb on-campus analytical facilities (e.g., http://cest.nd.edu/, http://genomics.nd.edu/), cross-disciplinary interaction through the Notre Dame's Environmental Change Initiative (http://environmentalchange.nd.edu/), exceptional computational resources (https://crc.nd.edu/), and a unique Interdisciplinary Graduate Training Program in Environment and Society (http://reilly.nd.edu/-graduate-programs/globes-certificate/).

Successful candidates will be expected to lead a strong, extramurally-funded research program, contribute to Notre Dame's exemplary teaching program, engage students in research, and participate in a dynamic and integrative departmental culture. For additional information on our outstanding programs and facilities, see http://biology.nd.edu/. Positions include a competitive salary, generous start-up package, and laboratory space tailored to the applicant's needs.

Qualified candidates are encouraged to apply by submitting: 1) a cover letter including the names of three referees, 2) curriculum vitae, and 3) brief statements of research interests and teaching philosophy through the Interfolio/Notre Dame online application system: https://apply.interfolio.com/78904. The search committee will begin consideration of applications on October 23, 2020, but the position will remain open until it is filled.

The University of Notre Dame, an international Catholic research university, is committed to building a culturally diverse and inclusive community. We strongly encourage applications from female and minority candidates. For more information contact the search chair, Dr. Beth Archie at earchie@nd.edu.

Elizabeth Archie <Elizabeth.A.Archie.2@nd.edu>

USDA Hawaii ResearchBiologist

Aloha!

Our research unit in Hilo, HI has a vacant position for a permanent Research Biologist.

Responsibilities include:

* Applies the knowledge acquired to improve quality and production of tephritid fruit flies and their parasitoids in mass-rearing systems supporting fruit fly control programs such as Sterile Insect Technique (SIT) programs worldwide * Carries out research to identify and culture microbial organisms associated with fruit flies, their parasitoids, and other tropical pests, and to experimentally link microbiome composition to performance and metabolic phenotypes of insects * Increases understanding of the microbial ecology of insects in both agricultural and natural ecosystems to identify roles of microbes on insect health and behavior * Supports novel applications in fruit fly/tropical insect pest management

Details on the position and application process can be found on USA Jobs: https://www.usajobs.gov/GetJob/-ViewDetails/577710400 . Sheina B. Sim, Ph.D. Research Biologist USDA-ARS Daniel K. Inouye US PBARC Hilo, HI 96720

"Sim, Sheina - ARS" <sheina.sim@usda.gov>

UTexas ElPaso Landscape Evolution

POSITION DESCRIPTION: The Department of Biological Sciences at The University of Texas at El Paso (UTEP) invites applications for a *Landscape Ecologist, *with a preference for a researcher that works in

extreme environments including, but not limited, to the Arctic and Chihuahuan Desert, for a tenure-track position at the Assistant Professor level. We seek a colleague with the ability to engage in collaborative approaches to environmental questions with expertise in areas such as global change biology, the intersection between ecosystems and society, or ecological restoration. We particularly encourage individuals that use geospatial technologies and approaches (including GIS, remote sensing, spatial statistics, and/or modelling) in their research to apply. The successful candidate is expected to develop an inclusive, independent research program and will be required to mentor and teach courses at both the undergraduate and graduate levels. Anticipated appointment date is fall 2021.

ABOUT THE DEPARTMENT: The Department of Biological Sciences is among the most active departments at UTEP and contributes to interdisciplinary programs in Environmental Science, Environmental Science and Engineering, Bioinformatics and Computational Science. The Ecology and Evolutionary Biology (EEB) doctoral program supports 28 students and is growing. Existing faculty expertise includes ecological, evolutionary, biomedical, and education research fields. Core facilities include capacities for genomics, bioinformatics, and biomolecule analysis; an herbarium; a green roof; and a greenhouse. The department also manages the 38,000 acre Indio Mountains Research Station. Current EEB faculty conduct research around the world, including locally in the Chihuahuan Desert. More information is available at the Department of Biological Sciences website < https://www.utep.edu/science/biology/ >.

ABOUT UTEP

The University of Texas at El Paso is a comprehensive public research university that is increasing access to excellent higher education. UTEP enrolls more than 25,000 students in 167 bachelor's, master's and doctoral programs in 10 colleges and schools. Set against the backdrop of the Franklin Mountains in the Chihuahuan Desert, the University is located at the heart of the U.S.-Mexico border in one of the largest binational communities in the world. It is one of the largest and most successful Hispanic-serving institutions in the country, with a student body that is over 80% Hispanic.

UTEP advances discovery of public value and positively impacts the health, culture, education and economy of the community it serves. With more than $100 million in total annual research expenditures, the University is ranked among the top 5% of colleges and universities in research and fifth in Texas for federal research expenditures at public universities, after UT Austin, Texas A&M, the University of Houston and The University of Texas at Dallas. It is also nationally recognized as a community-engaged university.

The University employs approximately 4,000 faculty, staff and students. It has one of the lowest out-of-pocket costs of any research university in the U.S., underscoring its commitment to offer an exceptional education at a great value.

REQUIRED QUALIFICATIONS: Applicants must have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and the capacity to secure extramural funding.

*APPLICATION PROCEDURE: *Review of applications will begin immediately, and applications will be accepted until the position is filled. Candidates must submit a letter of interest, curriculum vita, statement of research interest, a brief outline of their teaching philosophy, copies of three relevant authored or co-authored publications, and contact information for at least three references. For information on the position, please contact Dr. Vanessa Lougheed (vlougheed@utep.edu) with the subject line: UTEP EEB Faculty Search.

To apply, please visit https://www.utep.edu/employment Hiring decisions are based upon budget approval.

In keeping with its Access and Excellence mission, The University of Texas at El Paso is committed to an open, diverse, and inclusive learning and working environment that honors the talents, respects the differences, and nurtures the growth and development of all.

*The University of Texas at El Paso is an Equal Opportunity/Affirmative Action employer. The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, genetic information, veteran status, sexual orientation, or gender identity in employment or the provision of services in accordance with state and federal law. Discrimination on the basis of sex includes an employee's or prospective employee's right to be free from sexual harassment under Title

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Yale Singapore EvolutionaryBiology

Appointment Professor / Associate Professor / Assistant Professor in Life Sciences, Organismal Biology

Position Description Yale-NUS College is a highly selective liberal arts college in Singapore. Co-founded by Yale University and the National University of Singapore, the College is committed to excellence in research and teaching within a full residential programme that integrates living and learning. Its curriculum educates students in Asian and Western intellectual traditions as well as current scientific thought. A student body of 1000 undergraduates from over 60 countries engages with more than 100 outstanding faculty from around the world through small classes and hands-on research. Students and faculty also have access to the wider resources of two world-leading research universities.

The College invites applications for one tenure-track position at the Professor / Associate Professor / Assistant Professor rank in Life Sciences. Preferred fields of specialisation are Organismal Biology, including zoology, botany, evolution, ecology, molecular systematics, population genetics, and comparative physiology.

Applicants should have a relevant PhD and be active researchers with a commitment to creative and effective undergraduate teaching and mentoring. The incoming faculty member would join a committed team (https://lifesciences.yale-nus.edu.sg/people/our-faculty/) dedicated to the development and teaching of the Life Sciences Major (https://lifesciences.yale-nus.edu.sg/) and Yale-NUS's flagship Common Curriculum (see http://www.yale-nus.edu.sg/curriculum/common-curriculum).

Some teaching experience is preferred for appointment as Assistant Professor. Applicants for tenured positions must demonstrate an outstanding track record for their career stage in teaching, research and service. Research achievement should include publication in leading peer-reviewed journals, as well as a proven ability to attract research funding.

The appointee will be expected to begin duties in time for the start of the 2021-2022 academic year.

Faculty receive salaries that are on par with the most prestigious liberal arts colleges in the world, a substantial start-up grant as well as a yearly travel and research allowance, and are able to access additional funding from Yale-NUS, National University of Singapore, and Singapore's Ministry of Education. Most faculty qualify for highly subsidized faculty housing, either on campus or a short walk away. Yale-NUS College is located in Singapore, a multicultural city of six million that is known for its high quality of life and sits at the heart of a vibrant region.

Application Procedure Applications should consist of the following: a cover letter explaining why the position at Yale-NUS is of interest; a full curriculum vitae, including a complete list of publications; statements on research interests, teaching experience, and teaching philosophy, including how these might fit with the College's particular mission and curriculum;

Applicants for a tenure-track position are also responsible for ensuring three academic referees each submit a written statement of support via https://academicjobsonline.org/ajo/YaleNUS. Applications including all referee letters must be received by 31 October 2020. Applicants for a tenured position should submit the names and contact information of three academic referees.

Review of applications begins 15 September 2020 and continues until the position is filled. Short-listed candidates will be notified on or before 31 December 2020. Unsuccessful applicants will not be notified. The interview process will be via Zoom or Skype calls and will involve a research presentation, a sample class and formal interviews.

For general enquiries, please email: enquiry_sciencediv@yale-nus.edu.sg

Equal Opportunity Employer Yale-NUS College achieves excellence through the diversity of its students, faculty, and staff and by embracing inclusivity, equity, and global engagement. We encourage applications by diverse individuals with a demonstrated commitment to continually support these values. For more information about the College, please visit https://www.yale-nus.edu.sg Personal Data Protection Act (PDPA) Candidates should understand that by sharing information with Yale-NUS, they authorise the College to use their personal data for the purposes of this application. The College will not use their data for other purposes and ensure that their data remains secure and confidential.

Thank you and Best Regards, Serene TAM Yale-NUS College |—Management Assistant Officer |—Division of Science/ Cendana College Office |—28 College Avenue West,

— / —

Other

Astrobiology CaisterPress

From: Caister Academic Press <publications@news.caister.com> Subject: Astrobiology book review

Astrobiology review

Anyone who has always been enthusiastic and interested in space travel, biology, chemistry and interdisciplinary research should get this book - here they will get many answers and new impressions of the exciting research field of astrobiology

Please see the following review of Astrobiology: Current, Evolving and Emerging Perspectives "Anyone who has always been enthusiastic and interested in space travel, biology, chemistry and interdisciplinary research should get this book - here they will get many answers and new impressions of the exciting research field of astrobiology ... The book is a very good introduction to interested readers who want to get to know the field of astrobiology. Experienced astrobiologists get an up-to-date insight into current topics and research work, such as the EU-funded MASE (Mars analogues for space exploration project). You can read the book without a break or in stages and bring a piece of space research into your laboratory, office or living room." from BioSpektrum (2020) 26(5): 577

read more ...

Astrobiology: Current, Evolving and Emerging Perspectives Edited by: André Antunes This informative and up-to-date book is an invaluable review on current research in astrobiology and is an essential acquisition for anyone involved in this cross-disciplinary field. read more ...

Related books:

Climate Change and Microbial Ecology: Current Research and Future Trends (Second Edition) Edited by: Jürgen Marxsen read more ...

Microbial Biofilms: Current Research and Practical Implications Edited by: Arindam Mitra read more ...

Polymerase Chain Reaction: Theory and Technology Author: Mark A. Behlke, Kornelia Berghof-Jäger, Tom Brown, et al. read more ...

Microbial Ecology: Current Advances from Genomics, Metagenomics and Other Omics Edited by: Diana Marco "easy to read ... applicable to teaching faculty as well as advanced undergraduate students, graduate students, and researchers" (SIMB News); "concise and well written" (Quarterly Rev. Biol.) read more ...

Plant-Microbe Interactions in the Rhizosphere Edited by: Adam Schikora "recommended for anyone involved in plant science or environmental microbiology" (Biotechnol. Agron. Soc. Environ.); "an authoritative overview" (Eur. J. Soil Sci.) read more ...

Cyanobacteria: Signaling and Regulation Systems Author: Dmitry A. Los "a very good summary ... recommended" (Biospektrum) read more ...

Metagenomics: Current Advances and Emerging Concepts Edited by: Diana Marco "presents those new to the field with important aspects of metagenomics

(Eur. J. Soil Sci.) read more ...

Current books of interest:

- Climate Change and Microbial Ecology - Alphaherpesviruses - Legionellosis Diagnosis and Control in the Genomic Era - Bacterial Viruses - Microbial Biofilms - Astrobiology - Chlamydia Biology - Microbial Exopolysaccharides - Polymerase Chain Reaction - Pathogenic Streptococci - Bats and Viruses - SUMOylation and Ubiquitination - Avian Virology - Insect Molecular Virology - The Prion Protein - The Prion Protein

CallForData SexDiffInThermalTolerance

Dear colleagues,

I am collecting data for a meta-analysis on sex differences in thermal acclimation capacity across ectothermic animals. This project is led by Prof. Shinichi Nakagawa from The University of New South Wales, Sydney, Australia.

We are seeking SEX-SPECIFIC data on THERMAL TOLERANCE and THERMAL PREFERENCE, tested ACROSS DIFFERENT ACCLIMATION TEMPERATURES in fish, amphibians, reptiles and invertebrates.

Specifically, we are interested in thermal tolerance measured with a DYNAMIC METHOD (constant increase/decrease in temperature until an endpoint is reached).

That is, we are seeking data on critical thermal limits (CTmin, CTmax), chronic lethal temperatures (CLmin, CLmax), upper and lower lethal temperatures (LTmin, LTmax) and supercooling points (SCP).

We exclude alternative measures of thermal tolerance such as LT50, recovery time, survival or time to death.

We are also interested in thermal preference data measured in a thermal gradient or shuttle box (preferred/selected body temperature tested with either the acute, or the gravitational method). We exclude thermal preference interpolated from physiological performance (e.g. optimal temperature for swimming activity).

To be included in our meta-analysis, FEMALES AND MALES must have been tested, and DATA REPORTED SEPARATELY FOR EACH SEX.

Moreover, at least TWO ACCLIMATION TREATMENTS must have been tested in controlled laboratory conditions for at least 24H. Animals in each acclimation treatment must have experienced SIMILAR CONDITIONS (i.e. all else being equal) except for the temperature of acclimation.

That is, animals in each acclimation group must have been acclimated for the same duration, reared at similar temperatures during embryonic development (or collected from the wild), and acclimated with similar abiotic conditions (pH, humidity, salinity, photoperiod, etc.).

If the factors described above (or others not cited here) were tested in a factorial design with acclimation temperature, we are interested in obtaining this data for each one of these conditions.

For instance, the CTmax could have been assessed across two acclimation temperatures, two species, and three ramping rates in a full-factorial design, which results in 2 x 2 x 3 = 12 combinations for each sex; where species and ramping rate can be coded as moderator variables in our meta-analysis.

If you, or your colleagues, may have relevant unpublished data, or articles we have missed in our systematic review, please let us know and email me at p.pottier@unsw.edu.au

You can provide us with the MEAN, STANDARD DEVIATION and SAMPLE SIZE of thermal tolerance/thermal preference for each subset of a factorial design (if applicable), for each sex. You can also provide us with the RAW DATA WITH DATA DESCRIPTION (meta-data), allowing us to calculate the mentioned summary statistics.

Please feel free to contact me if you need further clarifications.

This data will be extremely useful for determining whether sexes differ in their plastic responses to temperatures.

If your data matches our inclusion criteria, your contribution will be acknowledged as a reference to your original publication (if published), or unpublished work, in our meta-analysis (main text or supplementary materials).

Thank you for your time. Kindest regards,

Patrice Pottier PhD Student ??? Inter-Disciplinary Ecology and Evolution lab (I-DEEL; i-deel.org) Evolution & Ecology Research Centre (E&ERC) School of Biological, Earth and Environmental Sciences (BEES) The University of New South Wales Randwick NSW 2052, Sydney, Australia Contact: p.pottier@unsw.edu.au

Patrice Pottier | PhD Student

Inter-disciplinary Ecology and Evolution lab (I-DEEL) Evolution & Ecology Research Centre, EERC Biological Sciences Building (E26) School of Biological, Earth and Environmental Sciences, BEES The University of New South Wales Randwick NSW 2052, Sydney, Australia

Contact: p.pottier@unsw.edu.au

patrice.pottier37@gmail.com +61403138879 pronouns: he/him/his Researchgate profile http://www.i-deel.org/ https://orcid.org/0000-0003-2106-6597 Patrice Pottier <p.pottier@unsw.edu.au>

Thank you very much.

Regards,

Sushant Potdar Department of Biological Sciences University of Arkansas, Fayetteville sdpotdar@uark.edu

Sushant Potdar (sdpotdar@uark.edu)

Grace Hirzel

Matthew Murphy

Yi Ting Ter

Sushant Potdar <sdpotdar@uark.edu> Sushant Potdar <sdpotdar@uark.edu>

COVID Survey

Subject: Other: Participate in a survey on effects of COVID-19 on graduate student research in the USA

Graduate students have triple roles in USA universities, as they have to fulfill their teaching duties, course requirements as students, and conduct their research towards their degree. With laboratories shutting down due to COVID-19 pandemic, graduate students are unable to conduct planned research and are challenged to rely on alternative research that can be pursued during self-isolation or quarantine. This can have major implications for graduate students in ecology and evolutionary biology as projects are dependent on interdisciplinary fields of molecular biology and field biology, both of which are affected by the pandemic.

The Westerman lab at the University of Arkansas is conducting a survey which aims to study the effects of COVID-19 related laboratory closures on graduate student research and the measures they are taking to continue their research by working from home. This survey also aims to assess the similarities (or differences) between lab based and field based experiments. Lastly, this survey will assess the mental health of graduate students during COVID-19 related laboratory shutdown.

We sincerely hope that you would take 10-15 minutes off your busy schedule to complete our survey. Please share it among your other lab members, friends, department graduate students or share it on Twitter and Facebook, to help us reach a wider audience within the USA. You can find the link to the survey below.

Survey link: https://uark.qualtrics.com/jfe/form/-SV_a8IVnE4sgP8gJQ9 If you have any concerns or questions, please do not hesitate to contact me.

Debrecen InternshipStudents Plovers

I am looking for up to 2 internship students, at either the BSc or MSc level, to work with me on my project on mating systems biology and ecology in Plovers in Madagascar. Since 2002, the breeding systems of three species (Madagascan Plover, White-fronted Plover, Kittlitz's Plover) have been studied intensively across Madagascar.

The positions will span a period of up to 6 months, with some flexibility in the time period. Ideally, the students will be based in Debrecen, however, given current global circumstances, I am also happy to consider working remotely. If students do come to Hungary, the project will cover some of their living costs. For highly motivated students and/or those with the appropriate experience, I am willing to consider the possibility of extending their projects and covering the costs for them to visit and work at our field site in SW Madagascar in spring 2021. This project is in collaboration with Tamás Székely (University of Bath; University of Debrecen) and Sama Zefania (University of Toliara).

I would particularly welcome students who have their own ideas and questions that they would like to explore and develop using the Plover system. Potential topics include habitat choice, mating system evolution, nesting success, incubation behaviours and dispersal. This is an excellent opportunity for students to learn how to manage and drive an independent project.

Debrecen is the second largest city in Hungary and has a lively university community. The University of Debrecen was established in 1538, and it is one of the prestigious universities in Central Europe. The university has over

4000 students - many are from abroad. The Dept. of Evolutionary Zoology and Human Biology is one of the leading departments in natural sciences. Debrecen Airport has connections with some of the main European airports. Debrecen is located close to Hortobagy National Park, a UNESCO-recognised protected area and an excellent location for wildlife.

If you have any questions, please do not hesitate to get in touch.

Email: wjonesdebrecen“at”gmail.com Twitter: @jacanajones Website: https://elvonalshorebirds.com/- Website: https://williamjonesresearch.wordpress.com/ Video of the Madagascar field site: https://youtu.be/-fOMDSNK38eY

DemographicsTutorial for Springer Book

We are happy to announce the publication of our book on “Demography of Population Health, Aging and Health Expenditures” by Springer.

This is the Volume 50 of the “The Springer Series on Demographic Methods and Population Analysis”.

https://www.springer.com/gp/book/9783030446949

Following this book theoretical chapters and provided programs you will be able to do estimations as the provided in the attached paper on:

“How the unsolved problem of finding the Healthy Life Expectancy (HLE) in the far past was resolved: The case of Sweden (1751-2016) with forecasts to 2060 and comparisons with HALE”

Accordingly, a very important Demographics Tutorial and Webinar is organized.

Subscribe electronically at http://www.smtda.net/-demographicstutorial.html . You will be able to follow advanced Stochastic Theory applied to Demography and Health State estimates.

To use

Advanced programs to estimate the Healthy Life Expectancy the Healthy Life Years Lost to Disability in connection to HALE forms from the World Health Organization, the HLE from Eurostat and other forms as HALE and DALE from Burden of Disease studies.

The Sullivan method is also provided in the Computer Program dealing with the Healthy Life Expectancy estimation.

All these important futures are included into the appropriate program and the guidelines. Even more the Gompertz and Weibull model programs are also provided ready to apply.

Before to participate in the Tutorial download the appropriate programs from the webpage http://-www.smtda.net/demographicstutorial.html read the instructions and be ready to run the programs with the instructor.

See you in the Tutorial-Webinar,

Prof. Christos H Skiadas

The 19th Conference of the Applied Stochastic Models and Data Analysis International Society ASMDA2021 and

DEMOGRAPHICS2021 WORKSHOP

1 - 4 June 2021, Athens, Greece

celebrating the 40th year of successful conferences worldwide

<secretar@smtda.de>

GeneticSNParray Sample Mix-ups Survey

Kia ora (hello)!,

I am writing to invite you to take our online questionnaire about sample mix-ups in biological studies.

My student Laura is a PhD candidate in Biological Sciences at the University of Auckland, with advisors Dr Patricia Brekke and Dr John Ewen at the Zoological Society, London. Because sample errors can dramatically influence downstream analysis, part of her thesis focusses on detecting and resolving sample mix-ups in a SNP array genotyping project.

Laura is looking for researchers who are over 18 and occasionally or frequently working with genetic or genomic data to take an anonymous online questionnaire. It should take no more than 5 minutes to complete.

Should you wish to take part, you can find the questionnaire here:

https://auckland.au1.qualtrics.com/jfe/form/-SV_6uqKfOe0q6SYKgd We would appreciate if

you could share this questionnaire with your colleagues, however, participation is entirely voluntary, and responses are anonymous.

Further information is available at the survey link above. If you would like more information about this project or have any questions, please get in touch with me (a.santure@auckland.ac.nz) or with Laura via email (ldun612@auckland.ac.nz).

Thank you very much for assisting with Laura'Âs research!

NgÂ' mihi nui (with best wishes),

Anna Santure

Approved by the University of Auckland Human Participants Ethics Committee on 13/07/2020 for three years. Reference Number UAHPEC2528.

asanture@gmail.com

Grants ArcticEvolutionaryResearch

Dear All,

Just a short note that the EU-funded INTERACT network (https://eu-interact.org) has an open call for Transnational Access visitation grants that cover travel and housing costs at more than 50 research stations located across the Arctic. It is also possible to apply for remote access, meaning that you can apply for funds that pays station staff to collect samples or conduct experiments on your behalf - an option that may be relevant to researchers until the pandemic is over. The call description is available at https://eu-interact.org/-accessing-the-arctic/tacall, and the deadline for applications is October 15, 2020.

In this context it is worth mentioning that the Norwegian Institute of Bioeconomy (NIBIO) research station Svanhovd in northern Norway offers possibilities for conducting field work in diverse subarctic and arctic aquatic and terrestrial environments. Unlike most field stations, Svanhovd also has a modern molecular genetics lab that can be used during visits.

For more information, check out Svanhovd's website (www.svanhovd-molecol.no) regarding information on facilities and the local environment.

Best wishes, Cornelya

– Cornelya F. C. Klutsch, PhD Research Scientist Norwegian Institute of Bioeconomy Research (NIBIO) Division of Environmental Research in the Barents Region NIBIO Svanhovd, Svanhovd, NO-9925 Svanvik Email: cornelyaklutsch@gmail.com

Cornelya Klutsch <cornelyaklutsch@gmail.com>

IntroductionToEvolComplexityScience

Dear all,

With the growing movement towards systems thinking, there is increasing interest in how the methods of complexity science can be applied to evolutionary systems. Evolutionary studies are well suited to complex systems approaches because they routinely involve phenomena like interactions and feedback, emergent states, and tipping points.

While some introductory texts on complexity science are available, the material is typically taught using simple toy examples. We have found that researchers then often find it challenging to apply complexity science thinking when they encounter messy complex systems in the real world.

Our teaching material flips this problem on its head. We begin with a series of richly empirical case studies, and walk the reader through the process of applying complexity science thinking to those real systems and datasets.

To assist in this learning, we have released a series of free interactive online apps, where anyone can play with real complex systems data and see how it behaves. Given the current need for online learning, these resources may be useful for undergraduate and graduate classes because the learning material is self-contained and entirely online. The website is available here:

https://www.islandsoforder.com A key aim was to make all of our learning material accessible, so we purposely pushed to make the book associated with the website as affordable as possible. Princeton University Press has released an ebook version for under $20, and if you prefer the feel of real paper, the paperback version is under $30. Both are available here:

https://press.princeton.edu/books/paperback/-9780691192949/islands-of-order Don't be dissuaded by the title both the website and book are packed with evolutionary systems, genetics and population biology.

If you have ever been curious about complexity science and systems thinking, and would like to introduce these

ideas into your research or get them in front of your students, please feel free to take a look.

Islands of Order: A Guide to Complexity Modeling for the Social Sciences J. Stephen Lansing and Murray P. Cox Foreword by Michael R. Dove (Peabody Museum of Natural History, Yale) Princeton University Press

"A major achievement. The breadth and depth of this brilliant book, from rich ethnography to elaborate agent-based models, are awe inspiring and standard setting." Scott E. Page

Murray Cox m.p.cox@massey.ac.nz

Professor of Computational Biology Incoming Co-Director of the New Zealand Centre of Research Excellence in Complex Systems https://www.genomicus.com murray.p.cox@gmail.com

InvertebrateSamples ForResearch ArizonaStateU

The National Ecological Observatory Network (NEON) Biorepository at Arizona State University's Biocollections is curating and making available for research over 110,000 samples and specimens collected each year as part of the NEON project.

NEON's standardized and structured sampling of invertebrate communities contributes a major component of this sample catalog. At each of its 47 terrestrial field sites that span 20 ecoregions within the United States, including Puerto Rico, Hawaii, and Alaska, NEON conducts a number of sampling protocols that result in pinned and bulk specimens and DNA extractions from carabids, mosquitos, ticks, and ground-dwelling invertebrate community-level samples. The Biorepository currently has over 45,000 available terrestrial invertebrate samples and specimens and expects to add more than 40,000 each year. To date these samples comprise 335 identified taxa, as well as a broad range of diversity held within bulk bycatch samples.

Note that NEON aquatic invertebrate sampling is also underway, but the associated Biorepository collections are not yet available for research. Please contact the Biorepository at biorepo@asu.edu if you are interested in these sample types.

All NEON Biorepository samples are directly tied to the research design and purpose of the NEON project, i.e., to facilitate long-term monitoring/forecasting of ecological and evolutionary processes on a continental scale. Therefore, the available specimens are representative of populations and communities in the field and associated with high-resolution environmental and organismal data. Samples received to date are appropriate for answering a wide variety of scientific questions related to community/population/phylo- genetics, population/community structure, microbiomes, disease/microbial/ecosystem/macro- ecology, etc. Many of the invertebrate sample classes in particular are well-suited to studies of intra- and interspecific variation within and between sites and seasons.

In particular, we encourage researchers to consider the use of NEON Biorepository samples in projects proposed to the National Science Foundation Macrosystems Biology and NEON-Enabled Science (MSB-NES): Research on Biological Systems at Regional to Continental Scales program (due November 9th). From the program solicitation: "Proposers are encouraged to use NEON resources, and proposals for substantive and innovative NEON-enabled research will be prioritized for funding. Substantive NEON-enabled projects rely on data and/or samples collected by NEON, co-locate research activities at NEON sites, and/or develop tools that will explicitly enhance the processing, use, and/or analysis of NEON data or collections within the context of Macrosystems Biology research questions."

Please contact NEON Invertebrates Collections Manager Andrew Johnston and Cryo Collections Manager Azhar Husain at biorepo@asu.edu for more information about opportunities and sample availability. To explore available samples, visit the NEON Biorepository data portal at https://biorepo.neonscience.org/ . – Kelsey Yule, PhD NEON Biorepository Biodiversity Knowledge Integration Center School of Life Sciences Arizona State University she/her/hers

website < http://kelseyyule.com > NEON Biorepository Data Portal < https://biorepo.neonscience.org/portal/-index.php >

I acknowledge that I live and work on the unceded land of the Akimel O'odham people.

Kelsey Yule <kmyule@asu.edu>

JEvolutionaryBiol Editor

Editor-in-Chief of the Journal of Evolutionary Biology

The European Society of Evolutionary Biology (ESEB; eseb.org/), in cooperation with Wiley Blackwell Publishers, is looking for an established evolutionary biologist with a position in a major research institution to lead the Journal of Evolutionary Biology (JEB; onlinelibrary.wiley.com/journal/14209101) as Editor-in-Chief (EiC) from mid 2021. Established in the 1980s, JEB is a long-standing international Society journal publishing cutting-edge papers in the field of evolutionary biology at large, with a major focus on the micro- & macro-evolution of all organisms at all levels (molecules to communities).

The EiC represents and oversees running the journal with focus on its scientific content. In close collaboration with the dedicated JEB Editorial Manager and a Wiley Publishing Manager, the EiC is responsible for:

§managing, recruiting and interacting with a large board of dedicated Handling and Deciding Editors to guarantee high quality publications in JEB;

§making policy decisions on publication strategy and quality control, in liaison with the publisher Wiley Blackwell and as part of ESEB's governing board;

§making final publication decisions based on scientific merit, and acting as Deciding Editor;

§co-organizing and attendance of the bi-annual ESEB conference from which symposium-based special issues for JEB are derived;

§soliciting or commissioning suitable manuscripts, Special Issues and other publishing opportunities from various sources;

§promoting important JEB content to the public.

An estimated average of 10-15% of weekly time is dedicated to this position. Appointments are for a 4-year term. Location is flexible as most communication occurs electronically. An appropriate honorarium compatible with local employment regulations is paid. ESEB membership is required. Academic publishing is undergoing significant changes, and we would wish the candidate to be enthusiastic in support of a Society journal and its aims by pursuing opportunities to improve its impact and strength during this transition period.

We encourage interested candidates to contact informally one or more of the last three Editors in Chief for JEB for more information about what is involved (Allen Moore: ajmoore@uga.edu; Mike Ritchie: mgr@st-andrews.ac.uk; Wolf Blanckenhorn: wolf.blanckenhorn@uzh.ch). Your interest can also be discussed any of the current ESEB officers. A formal application/expression of interest should be sent to the ESEB secretary, John Pannell (john.pannell@unil.ch) by 30 November 2020. Your letter should provide a brief outline of your vision for the journal over the next few years and an explanation for why you would be interested in editing JEB at this point in your career. It should also include an appended CV.

Wolf U. Blanckenhorn, Editor-in-Chief JEB John Pannell, Secretary of ESEB

John Pannell <john.pannell@unil.ch>

LinneanSocietyMedalsAwards SeekingNominations

Nominate Excellence in the study of Natural History

The Linnean Society of London honours those who contribute scientifically and in other ways to natural history through our medals and awards that are given every year. We are seeking nominations across the spectrum of natural history, and particularly encourage nominations of candidates from traditionally marginalised or underrepresented sectors of the natural history community.

Nominations close on 1 November 2020 'V so the time is NOW to nominate excellent natural historians for a Linnean Society Award.

Medals and awards are detailed on the Society's webpage (https://www.linnean.org/the-society/medals-awards-prizes-grants) where criteria are specified and a nomination form can be downloaded. Nominees do not have to be Fellows, but nominators must be Fellows of the Society. If you wish to nominate for these awards, but are not a Fellow, please contact nominations@linnean.org BEFORE 15 October 2020.

Nominations will be scrutinized by the Society'Âs Nominations & Awards Committee and voted on by Council.

Please help the Society celebrate excellence in the science of natural history.

Thank you

Linnean Society of London Nominations & Awards Committee (S. Knapp, A. Goswami, B. Huertas, M. Telford, S. Pressel)

"Telford, Max" <m.telford@ucl.ac.uk>

New RoyalSociety JournalIssues

Royal Society Publishing has recently published a special issue from Philosophical Transactions B entitled The role of the microbiome in host evolution compiled and edited by Oren Kolodny, Benjamin J Callahan and Angela E Douglas and the articles can be accessed directly at www.bit.ly/PTB1808 Purchase the print issue at the reduced price of Â£35 (usual price Â£65) by contacting Debbie.Vaughan@royalsociety.org

Felicity Davie Royal Society Publishing

T +44 20 7451 2647

The Royal Society 6-9 Carlton House Terrace London SW1Y 5AG http://royalsocietypublishing.org Registered Charity No 207043

Felicity.Davie@royalsociety.org

Online EvolCompGen Seminars

Dear colleagues,

You are invited to the next online journal club on Evolution and Comparative Genomics organized by ISCB and SMBE (as part of the ISCBacademy series of webinars) on Evolution and Comparative Genomics.

The next seminar will take place next week, Wednesday September 30, at 11:00AM EDT: RAxML-NG: a fast, scalable and user-friendly tool for maximum likelihood phylogenetic inference by Alexey Kozlov and Alexandros Stamatakis (Heidelberg Institute for Theoretical Studies).

Participation is free for any member of ISCB or SMBE, but registration is required. Please follow the link below. https://www.iscb.org/iscbacademy-upcoming#kozlov Link to the article:

* Kozlov, A. M., Darriba, D., Flouri, T., Morel, B., & Stamatakis, A. (2019). RAxML-NG: a fast, scalable and user-friendly tool for maximum likelihood phylogenetic inference. Bioinformatics, 35(21), 4453-4455. https://academic.oup.com/bioinformatics/-article/35/21/- 4453/5487384

If you are interested in presenting, or you want to suggest an article of interest for the journal club, please send an abstract to webinar@evolcompgen.org with "Abstract for Webinar" as the title of your message.

All the best,

Aida Ouangraoua, on behalf of the organizing committee.

Aïda Ouangraoua <Aida.Ouangraoua@USherbrooke.ca>

PanelDiscussion ActionsToConserveBiodiversity Oct7

Dear Colleagues,

The Society for the Preservation of Natural History Collections (SPNHC) is hosting a panel discussion to consider how the biological collections community can most effectively contribute to protecting biodiversity.

Please join the SPNHC Biodiversity Crisis Response Committee and a panel of five experts on October 7, 2020 from 11:00 'V 1:00 PM EDT (17:00-19:00 CEST, 23:00-1:00 CST).

Register: https://www.eventbrite.com/e/spnhc-panel-discussion-on-actions-to-conserve-biodiversity-tickets-121073635503 Hope to see you then!

SPNHC Biodiversity Crisis Response Committee Libby Ellwood (Committee Chair), La Brea Tar Pits and Museum Andy Bentley, University of Kansas Biodiversity Institute and Museum Jutta Buschbom, Statistical Genetics Talia Karim, University of Colorado Museum of Natural History Austin Mast, Florida State University Gil Nelson, Integrated Digitized Biocollections Erica Wheeler, Royal British Columbia Museum

Panelist Biographies Dr. Tara Cornelisse is an insect conservation biologist and Senior Scientist with the Endangered Species Program at the Center for Biological Diversity. After receiving her PhD at the University of California Santa Cruz, she completed a postdoc in conservation education at the American Museum of Natural History and then taught as an assistant professor in animal behavior, ecology, and conservation at Canisius College.

Dr. Robert Gropp is Director of Public Policy at the American Institute of Biological Sciences. Dr. Gropp earned his doctorate in plant ecology from the University of Oklahoma and his bachelor'Âs degree in biology from the University of California at Santa Cruz. Before joining AIBS in 2003, he was a Presidential Management Intern and a Congressional Science Fellow.

Dr. Rebecca Johnson is the Chief Scientist and Associate Director for Science at the Smithsonian National Museum of Natural History. Dr. Johnson is a wildlife forensic scientist and conservation geneticist who is passionate about reducing the illegal wildlife trade and promoting the importance of STEM, particularly women in STEM, in early and lifelong education.

Dr. Jeremy Kerr holds the University Research Chair in Macroecology and Conservation and is Full Professor and Chair of Biology at University of Ottawa where his research seeks to discover how environmental change affects biodiversity. Dr. Kerr engages in science outreach and is active at the science-policy interface. In those areas and in his research he works to create policies on equity, diversity, and inclusion.

Henry McGhie has a background as an ecologist and worked in museums for nearly 20 years, before setting up Curating Tomorrow, a consultancy that aims to help museums and their partners connect with sustainable development goals, climate action, and nature conservation. He is a member of the International Council of Museum's Sustainability Working Group, International Union for Conservation of Nature's Commission on Education and Communication, and United Nations Framework Convention on Climate Change's Education, Communication, and Outreach Stakeholders Community.

"buschbom@posteo.de" <buschbom@posteo.de>

RedPandaDay Conservation

International Red Panda Day 2020

Hello folks!

It is known to the conservationists and animal loversthat third Saturday of the Septemberis celebrated as InternationalRed Panda Day bydedicating a day to learn about red pandas. Join the campaign for conservation and celebrate thisauspicious day with usto strengthen knowledge, raise awareness and cooperate with each other for saving the iconic firefox populations and their habitats.

Timing: 10:00 AM - 12:00 PM (IST) Webinar link:https://amityuni.live/83244506562 Event Organizer(s): 1. Zoological Survey of India, New Alipore, Kolkata, West Bengal Website:https://www.zsi.gov.in 2. Amity Institute of Forestry and Wildlife, Amity University, Noida Website:https://www.amity.edu/aifw/ 3. Society for Conservation Biology, India Chapter Website:https://conbio.org/ Speakers: 1. Dr Mukesh Thakur, Scientist C, ZSI, India. 2. DrCharlie Alex,UC Davis,California, USA

look forward to your participation and happy planting the red panda home and habitats.

Thanks andBest Wishes!! Mukesh Thakur

–

Mukesh Thakur, Ph.D.,

C.W.F.S. Scientist C -Centre for DNA Taxonomy

Coordinator - Centre for Forensic Sciences

Zoological Survey of India, Prani Vigyan Bhawan M-Block, New Alipore Kolkata-700053;Mobile: +91-8171051282;FAX : 91-33-24008595

E.mail:thamukesh@gmail.com,mukeshthakur@zsi.gov.in

AWARDEE - INSA Medal for Young Scientist (2018), DSTINSPIRE Faculty (2017) andDST Young Scientist (2013)

IUCN - SSC Deer Specialist Group

Fellow- Chinese Academy of Sciences

Certified Wildlife Forensic Scientist

Follow me on ResearchGate&Twitter

"Dr. Mukesh Thakur" <thamukesh@gmail.com>

Teaching Evol High Schools

Dear friends, I am developing scientific projects in public schools here in Brazil but only about animal and plant ecology. I would like to start something about natural selection, but something quantitative producing data sets and plots in Excel. Any ideas? Suggestions?

Thanks for any help!

Prof. Dr. J. C. Voltolini Universidade de Taubaté Departamento de Biologia

jcvoltol@uol.com.br

UAdelaide SeminarSeries

University of Adelaide's Ecology & Evolution Seminar Series < https://sciences.adelaide.edu.au/events/list/-2020/09/ecology-and-evolution-series-spring > is becoming increasingly popular amongst our audience and presenters. This is fantastic! However, we now have more presenters requesting to talk than we can accommodate in our current format. So, we're asking you, our audience and presenters: "how we should grow?"

–>https://forms.gle/5irK7b5GWAipf6M29 <– (NOTE: We currently host TWO 25-minute presentations within a 60-minute seminar on the first Friday of each month).

We are a handful of researchers who donate their time to organise and host the Ecology & Evolution Seminar Series because we're passionate about building an inclusive, curious, cutting-edge community of environmental scientists. So, we'd love your feedback to help us prioritise ways to make the seminars better for everyone. This poll should only take 5-10 minutes of your time.

We're looking to grow our organising team so we can host more seminars. Please leave your name and contact details when prompted if you're interested in helping in any way :).

Cheers, Bowie & Jasmin

< https://sciences.adelaide.edu.au/events/list/2020/-09/ecology-and-evolution-series-spring >

Jasmin Packer

Research Fellow Convener | UoA Ecology & Evolution Seminar Series < https://sciences.adelaide.edu.au/-events/list/2020/09/ecology-and-evolution-series-spring > Environment Institute | The University of Adelaide

Work days: Mondays-Thursdays What's new? wee whibley story: https://www.mdpi.com/784740 Jasmin Packer <j.packer@adelaide.edu.au>

UTurku Interns EvolutionaryPhysiology

We are seeking two or more highly self-motivated master students to join our project that aims to advance our understanding on the relationship between thyroid hormones and life history variation across vertebrates.

This is a great opportunity for students who are looking to gain more research experience. The students will conduct systematic literature search, including literature screening and extracting data from the included studies under guidance. The students may choose one of the major vertebrate groups of interest (mammals, birds, reptiles, amphibians, or teleosts), refine the research question to relevant age groups and life-history traits pertinent to the chosen taxon, and use phylogenetic comparative methods to analyze the data compiled from the literature.

The students will be jointly supervised by Dr. Bin-Yan Hsu and Dr. Suvi Ruuskanen at the University of Turku (UTU), Finland, and work and communicate with Dr. Hsu on a regular basis. Due to the on-going coronavirus pandemic that is not expected to subside anytime soon, the possibility of remote work will be discussed upon mutual agreement.

To apply, you must already be a registered master student in a university and prepare to apply for a personal grant, such as the Erasmus+, to support your living. For details about the project and eligibility, please see: https://www.dropbox.com/s/-i16u62jk1odv6dq/Master-student interns_TH and life histories 2020_UTU.pdf?dl=1

Bin-Yan Hsu: https://www.researchgate.net/profile/-Bin_Yan_Hsu Ruuskanen group website: https://-sites.utu.fi/ruuskanengroup/ For any questions, please contact Dr. Bin-Yan Hsu (biyahs@utu.fi)

Bin-Yan Hsu

Bin-Yan Hsu, Academy of Finland Postdoctoral Research Fellow Ecology and Evolutionary Biology Department of Biology University of Turku FI-20014, Turku, Finland

Bin-Yan Hsu <biyahs@utu.fi>

PostDocs

ArizonaStateU BiodiversityDataScience

The Biodiversity Knowledge Integration Center (BioKIC) at Arizona State University (ASU) invites applications for a full-time, fiscal-year appointment as a postdoctoral research scholar position in biodiversity informatics. The position is part of the Biodiversity Data Science Initiative launched at ASU and led by Beckett Sterner (https://sols.asu.edu/beckett-sterner) and Nico Franz (https://sols.asu.edu/nico-franz).

The initiative will develop a next-generation, AI-enabled solution to overcome the performance limits of taxonomic names for integrating data about living things into scientifically meaningful units. This postdoctoral research scholar position will focus on developing a web-based taxonomic intelligence platform and innovating better solutions for knowledge representation and reasoning, including AI approaches where suited, at scale. Taxonomic intelligence provides the mapping between names and concepts necessary to resolve names accurately into meanings despite changing relationships across time and expert sources. The initiative will focus on building an innovative web platform that leverages theoretical advancements, computational logic, and prototype software for taxonomic concept alignment, with the goal to establish a robust, scalable taxonomic intelligence service that will carry value for scientific audiences, science publishers, government agencies, and environmental consulting firms. The platform will accelerate the growth of high-quality, reproducible biological data by driving the adoption of taxonomic intelligence metadata in scientific datasets and publications.

Application Instructions

Exploratory e-mail inquiries are strongly encouraged. Interested applicants please submit the following .pdf(s)

through Interfolio at http://apply.interfolio.com/78177 :

A one-page research statement clearly indicating their qualifications and motivation to join the project, Curriculum Vitae, and Contact information for three references.

The review of applications will begin September 15, 2020; if not filled, applications will be reviewed every week thereafter until the search is closed. The start date is flexible, yet with a strong preference for January, 2021.

Salary is commensurate with experience, with a range of $65,000 to 70,000 annually, plus ASU benefits. The top end of the salary range will be for exceptionally well-qualified applicants. Reasonable relocation funds are available.

Submitted by:

Nico M. Franz, Ph.D. Professor & Curator of Insects Director of Biocollections & BioKIC School of Life Sciences, PO Box 874108 Arizona State University, Tempe, AZ 85287-4108 E-mail: nico.franz@asu.edu

Nico Franz <nico.franz@asu.edu>

AustNatlU MicrobialTransmission

On Sep 9, 2020, at 10:52, Sasha Mikheyev <alexander.mikheyev@anu.edu.au> wrote:

Please take a look at a fully-funded three-year position at the Australian National University, in collaboration with the Commonwealth Scientific and Industrial Research Organisation (CSIRO). This project will examine the role that flies (Diptera) play in transmitting microbes from the environment to domestic animals and humans. While flies are often viewed as carriers of disease, exactly what they transmit, and over what distances, remains poorly understood. We will conduct high throughput sequencing to survey the microorganisms on two common fly species and explore the use of flies as autonomous drones for environmental sampling. This will involve sequencing, assembly and identification of microbe genomes from individual flies. Using a novel marker system, we will then measure how far these species can be detected carrying microbes from a point bait source. This project will generate novel data into how microbes disperse, but also have immediate agricultural and medical applications.

Having lived all over the world, I will vouch for the fact that Canberra is a fantastic place to live in terms of quality of life and climate. Furthermore, the Research School of Biology, and particularly the Division of Ecology and Evolution, offers dynamic and intellectually stimulating environments. This project is funded by CSIRO, and you will have access to their amazing facilities a 10-minute walk from the ANU campus. CSIRO is focused on translational research, so this could be an opportunity to explore applications of your work, in addition to pure science, which is an asset in today's changing world.

Applications close 28 September, 2020

https://jobs.anu.edu.au/cw/en/job/537615/-postdoctoral-fellow Please don't hesitate to contact me if you have any questions.

Sasha (Alexander) Mikheyev

—- Associate Professor Research School of Biology Australian National University

"alexander.mikheyev@anu.edu.au" <alexander.mikheyev@anu.edu.au>

Flagstaff VirusBioinformaticsGenomics

I'm currently recruiting for a bioinformatics-focused postdoctoral fellow to join my lab group at the Pathogen and Microbiome Institute, Northern Arizona University (http://www7.nau.edu/ladnerlab/). This will be a multi-year, NIH-funded position focused on the development and utilization of a novel platform for highly multiplexed antiviral serology, which utilizes high-throughput sequencing technology.

To apply: https://hr.peoplesoft.nau.edu/-psp/ph92prta/EMPLOYEE/HRMS/c/-HRS_HRAM.HRS_APP_SCHJOB.GBL?Page=-HRS_APP_JBPST&Action=U&FOCUS=-Applicant&SiteId=1&JobOpeningId=-604999&PostingSeq=1 For more information, feel free to contact me: jason.ladner@nau.edu

Northern Arizona University is located in Flagstaff, AZ, which offers an ideal, scenic environment for living and learning. With a four-season climate, amazing landscapes, and ample sunshine, you'Âll discover outdoor adventures unlike anywhere else in the United States'Xfind out more about NAU and Flagstaff at https://nau.edu/-

about/living-in-flagstaff/ . JTL

–

Jason Thomas Ladner, Ph.D. Assistant Professor

The Pathogen and Microbiome Institute Northern Arizona University 1395 South Knoles Drive, Building 56 PO Box 4073 Flagstaff, AZ 86011-4073 (Tel) : 928-523-0647

http://scholar.google.com/citations?user=-BERyl5AAAAAJ&hl=en https://github.com/jtladner http://www.nau.edu/ladnerlab/ Pronouns: he, him, his

Jason.Ladner@nau.edu

HelmholtzCentre Potsdam Coevolution

Postdoctoral Researcher ??? Co-evolution of life and landforms (Reference Number 4367) at the Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences - open until 7 Oct 2020

The Helmholtz Centre Potsdam - GFZ German Research Centre for Geosciences is the national centre for geosphere research. As a member of the Helmholtz Association we are part of the largest German scientific organization. With around 1,300 employees (including our guests) we develop a sound understanding of the systems and processes of the solid Earth as well as strategies and options for action to face global change and its regional impacts, to understand natural hazards and reduce associated risks, and to assess the influence of humans on the Earth's system. As a partner in Geo.X, the GFZ has access to an excellent network of other geoscience institutions in Potsdam and Berlin. This largest regional concentration of geoscientific competence in Europe offers first-class cooperation and development opportunities.

In Section 4.7, Earth Surface Process Modelling (Department 4 ???Geosystems???), we are looking for a:

Postdoctoral Researcher (m/f/x) ??? Co-evolution of life and landforms (Reference Number 4367)

Project description: There is now strong evidence for links between tectonic uplift, landscape evolution and evolution of life at the Earth???s surface. Examples include the distribution of micro-endemism in the lemur population in Madagascar (Horvarth et al, 2008), or the evolution of biodiversity in the Amazon Basin in relation to the Andean uplift (Horne et al, 2010). Although much advance has been made in modelling landscape evolution and speciation in response to external forcings (mostly climate), few models exist that can predict the evolution of life on an evolving landscape. In the past four years, large datasets have been gathered on tectonic uplift of the Andes, the resulting landscape evolution and climatic response and the evolution of the biota in the Atacama Desert. Yet, few attempts have been made to quantify the links between these different parts of the Earth system and their co-evolution over the past 20 Myrs. We propose to synthesize these results by further developing and using a new speciation model that we have coupled to a landscape evolution model.

This project is part of a Collaborative Research Center (CRC1211) titled ???Earth Evolution at the Dry Limit??? between several German universities, including the University of Cologne (CRC lead institution), the GFZ German Research Center for Geosciences Potsdam (host institution for this project) and the University of Bonn (co-supervisor institution for this project). The CRC objectives are to study the mutual evolutionary relationships between Earth???surface processes and biota in arid to hyper???arid conditions, where both biota and Earth surface processes are severely limited, predominantly by the availability of water. The focus is on the Atacama Desert of South America and the Namib Desert of Southern Africa. The post-doctoral position will be hosted at the GFZ in Potsdam in the Earth Surface Process Modelling (ESPM) group of Jean Braun, where numerical models are developed and used to investigate a wide range of physical, chemical and biological processes and interactions occurring at the Earth???s surface that are driven by tectonic processes and modulated by climate (https://github.com/fastscape-lem). The ESPM section hosts approximately 15 researchers (PhD students, Post-Docs and senior scientists) from diverse backgrounds and with varied research interests. The postdoc is also expected to collaborate with and visit (perhaps 2-3 times per year for several days) Dietmar Quandt???s group in the Nees Institute for Biodiversity of Plants at the University of Bonn, where a large fraction of the phylogenetic data has been generated.

Your responsibilities:

- to use coupled numerical models of life and landscape evolution to interpret (phylo-)genetic and taxonomic data from hyper-arid regions - to propose and test climatic and tectonic scenarios, based on observational constraints on the aridification and uplift of the region - to further develop the models as needed to test and validate those scenarios - to collaborate with other members of the CRC 1211 and, in particular, with members of Dietmar Quandt???s group in the Nees Institute for

Biodiversity of Plants at the University of Bonn, where a large fraction of the phylogenetic data has been generated - to interact with other members of the Earth Surface Process Modeling Section at weekly group meetings and in other informal ways - to present results at scientific meetings and in publications in peer- reviewed journals

Your qualifications:

- Master???s degree (or equivalent) and PhD in Biological Sciences or in Earth Sciences - demonstrable knowledge (and preferably research experience) in

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HowardU AnatomyEvolutionDevelopment

Postdoc Position: Visible Ape & Dissemination & Research

Hiring Institution: Howard Univ.; Posted: 09-1-2020; Duration PostDoc: Sept2020-Aug2022

A postdoctoral researcher is sought to join the Rui Diogo lab (www.ruidiogolab.com), at the Howard University College of Medicine, Department of Anatomy (Washington DC).

Within the field, this is one of the labs with a higher impact, number of publications in top journals, books, awards, and press coverage (TV, newspapers, press releases, etc.). Therefore we are looking for someone that is not only a relatively independent, top researcher, but also highly motivated, ambitious, willing to learn, and to help in dissemination 'V a crucial component of the philosophy of the laboratory-, including travels to rural communities in Africa and several scientific meetings. On the other hand, this means the researcher will gain a huge experience and be part of several top publications, therefore becoming highly prepared for a more senior position, after those 2 years, as has been the case with the vast majority of our previous postdocs. See also: Researchgate: https://www.researchgate.net/profile/Rui_Diogo Diogo Lab'Âs books: http://www.amazon.com/Rui-Diogo/e/-B001JS2K96 We are therefore interested in a candidate that will have the ability to:

1) Help to coordinate a major, NSF-funded project to produce a Visible Ape Website and mobile app that is similar to, and will be directly compared with, the Visible Human Project.

2) Do research, including choosing her/his own projects, and also within the projects currently studied at the lab

3) Help write review papers and books on broader evolutionary topics, therefore getting a substantial experience in publishing in top journals and monographs.

4) Have the willingness to disseminate science and bring awareness to ape conservation, including in rural communities in Africa, DC public schools, scientific meetings, and numerous other places. Therefore, the researcher should have a good, and ideally a very good, English level, as well as writing skills.

5) Have a high independence, and the drive to be highly productive, taking advantage of the broader scope and numerous collaborations of the lab, while also enjoying a vast liberty, concerning both a daily- basis schedule and at an intellectual level.

Interested candidates should send a 1-page letter addressing this announcement, as well as a detailed CV to Rui Diogo, at rui.diogo@howard.edu. Please write "post-doc in Diogo'Âs lab" followed by your last name in the email subject.

Howard University is a historical University situated in the center of Washington DC, which is a beautiful, green and enjoyable city with numerous cultural and outdoor activities. The Department of Anatomy provides a prosperous, resourceful and multidisciplinary environment for research, includes faculty with a broad experience in developmental biology, paleontology, neurobiology, comparative anatomy and medicine. We have strong ties with surrounding institutions, particularly with George Washington University and Smithsonian Institution, and the candidate will probably have the opportunity to do part of his/her research at those institutions and thus to further expand his/her knowledge and academic connections.

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Rui Diogo, PhD in Evol.-Funct. Morphol. & PhD in Hominid Paleobiol., Assoc. Prof. at Howard Univ. College Medicine, Dep. Anat., 520 W St. NW, Numa Adams Building, room 1101, Washington DC 20059, USA.| Fellow of American Association Anatomists

Diogo's Lab Website: http://www.ruidiogolab.com Diogo's books: http://www.amazon.com/Rui-Diogo/-e/B001JS2K96 Diogo's Wikipedia page: https:/-/en.wikipedia.org/wiki/Rui_Diogo Diogo's researchgate: https://www.researchgate.net/profile/Rui_Diogo

Diogo's Lab Twitter: @Rui_Diogo_Lab

Rui Diogo <rui_diogo@hotmail.com>

Juneau MarinePopulationGenomics

The Lopez Lab at the University of Alaska is hiring a three year postdoc to conduct population genomics research on marine fish in Alaska. Salary is $65,000/year and closing date for application is Oct 1. Job link is: https://careers.alaska.edu/en-us/listing/ UA is an AA/EO employer and educational institution and prohibits illegal discrimination against any individual: www.alaska.edu/nondiscrimination "Wesley A. Larson" <wlarson1988@gmail.com>

LundU Ecoevolution

Postdoctoral fellow in Eco-Evolutionary modelling, Environmental Science Lund University, Centre for Environmental and Climate research:

Lund University was founded in 1666 and is repeatedly ranked among the world's top 100 universities. The University has 40 000 students and 7 600 staff based in Lund, Helsingborg and Malmo. We are united in our efforts to understand, explain and improve our world and the human condition.

The Faculty of Science conducts research and education within Biology, Astronomy, Physics, Geosciences, Chemistry, Mathematics and Environmental Sciences. The Faculty is organized into nine departments, gathered in the northern campus area. The Faculty has approximately 1500 students, 330 PhD students and 700 employees.

The Centre for Environmental and Climate Research, CEC (http://www.cec.lu.se) conducts research, education and communication on environmental science and climate research at Lund University.

The postdoctoral position is funded by BECC (Biodiversity and Ecosystem services in a Changing Climate), an interdisciplinary strategic research area based on collaboration between more than 250 researchers at the universities of Lund and Gothenburg. BECC develops research that contributes to the visualization and generation of knowledge to predict and manage the combined effect of climate change and land use on biodiversity, ecosystems and ecosystem services. BECC's strength is its existing and successful research leaders from many different disciplines such as biology, political science, geology, mathematics, physical geography and economics that together develop BECC. The Center for Environmental and Climate Research, CEC, hosts BECC. CEC is both a physical and a virtual center at Lund University. CEC conducts research, education and communication about environmental science and climate research.

Eco-evolutionary models of plant-pollinator communities community response to landscape structure:

Sustainable agriculture is promoted by mutualistic ??plant-pollinator interactions, ??services that may increase ??economic and societal value. ??The aim is to study such services by ??formalising plant-pollinator community response to landscape structure and agricultural intensity using trait-based and eco-evolutionary models. The applicant should have experience in modelling and knowledge of ecological interactions, evolution, and dispersal processes in the context of population and community dynamics. An important component is to test models against data on ??bees, bumblebees, and butterflies to study how insects may respond to agricultural intensification and landscape simplification, considering both short and long-term effects by focusing on a historical and contemporary adaptation of functional. By fitting models to data, we aim to quantify active processes in the study system and to communicate ways of optimizing ecosystem services to stakeholders and policymakers.

Duties:

The main duties involved in a post-doctoral posistion is to conduct research. Teaching may also be included, but up to no more than 20% of working hours. The position shall include the opportunity for three weeks of training in higher education teaching and learning.

* formalisation of the complexity in which ecological interactions, evolution, and dispersal of organisms affect mutualistic interactions, and population and community dynamics * design and implementation of spatial, trait-based and eco-evolutionary models of mutualistic interactions * model validation given available data, using computational and statistical approaches.

The candidate should have a Ph.D. in Environmental science/ Ecology/ Evolution/ Physics/ Mathematics or Computer science. Knowledge of ecological, evolutionary and spatial processes is required. Candidates should be proficient in modelling dynamic systems (e.g. ODE-

models or IBM's) with experience in programming (e.g. Matlab, Python, C++, etc). Experience in numerical methods, model validation and Bayesian statistics are desirable. Important qualities are outgoing, problem-solving, independent and persistent.

Qualification requirements:

Appointment to a post-doctoral position requires that the applicant has a PhD, or an international degree deemed equivalent to a PhD, within the subject of the position, completed no more than three years before the last date for applications. Under special circumstances, the doctoral degree can have been completed earlier.

Assessment criteria and other qualifications:

This is a career development position primarily focused on research. The position is intended as an initial step in a career, and the assessment of the applicants will primarily be based on their research qualifications and potential as researchers. Particular emphasis will be placed on research skills within the subject. ?? Terms of employment:

This is a full-time, fixed-term employment of a maximum of 2 years. The

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MichiganStateU EcologyEvolutionBehaviorFellowship

MSU FOUNDATION POSTDOCTORAL FELLOWSHIP IN ECOLOGY, EVOLUTION, AND BEHAVIOR

The Ecology, Evolution, and Behavior (EEB) program at Michigan State University invites applications for a Postdoctoral Fellowship in Ecology, Evolution, and Behavior.

The position is for two years, subject to review after one year, and will begin no later than September 1st, 2021. It has a starting annual salary of $60,000 plus benefits, as well as a research stipend of $8,000 per year. We encourage applications from candidates in any early-career stage, from finishing PhD students to current postdoctoral scholars.

The Fellow will be a fully participating member of EEB at MSU and will be expected to have a cutting-edge research program that bridges the interests of two or more EEB core faculty members. A list of possible faculty mentors can be found here: https://eebb.natsci.msu.edu/directory/category/-d/core-faculty/ .Candidates should contact potential faculty mentors before applying, as sponsoring faculty will need to submit letters of support. The Fellow will also propose a community engagement initiative; possible ideas include (but are not limited to): a workshop on diversity, equity, and inclusion, professional development, or a technical research skill; a science communication or public engagement product or event; a public science initiative, a journal discussion group; curriculum development; etc.

APPLICATION COMPONENTS: Applications (including letters of reference) must be received by November 20th, 2020, and include: cover letter, CV, past and future research statement, community engagement proposal, DEI statement, and up to 2 publications, preprints, or manuscripts representative of the applicant's work. Additionally, applicants should have letters of support from 2 references and a single joint letter from the proposed EEB sponsors.

For more information on the MSU Foundation EEB Postdoctoral Fellowship, including detailed application instructions, please see https://eebb.msu.edu/ . Michigan State University is an Equal Opportunity/Affirmative Action employer, and actively encourages applications and/or nominations of women, persons of color, veterans, and persons with disabilities. International candidates are eligible. E-mail questions to committee co-chairs: Will Wetzel (wcwetzel@msu.edu), Marjorie Weber (weberm11@msu.edu), and Gideon Bradburd (bradburd@msu.edu).

"wcwetzel@msu.edu" <wcwetzel@msu.edu>

MonashU VectorGenomics

The Vector and Pathogen Genomics group at the Institute of Vector-Borne disease at Monash University is looking for a postdoctoral Research Fellow to investigate genomic rearrangement and mobile element insertion in Aedes aegypti. As well as being a fascinating aspect of genome evolution, this is also a subject of prime interest to the success of population replacement interventions and the specific work of the World Mosquito Program.

In our group we apply omics tools to vectors, viruses and

parasites in order to better understand disease transmission and develop tools for disease surveillance and control. Specific interests of the group include population structure and speciation in mosquito vectors, pathogen diversity and relatedness, pathogen-vector interactions and genomic epidemiology. This is all performed within the context of the World Mosquito Program and their global network of Wolbachia-based interventions into dengue and Zika transmission.

The role would suit a computational biologist looking to work in an important field of infectious disease research. Researchers with previous experience in statistical / population genetics or genomic evolution in dipteran or other model species are encouraged to apply.

Full ad and application details here: https://-careers.pageuppeople.com/513/cw/en/job/610469/-research-fellow-vector-genomics – Seth Redmond - Senior Research Fellow, Institute of Vector Borne Disease, Monash University seth.redmond@monash.edu | @snredmond Monash University | 12 Innovation Walk | Clayton VIC 3800 Australia https://www.monash.edu/-ivbd Seth Redmond <seth.redmond@monash.edu>

MuseuDeZoologia USaoPaulo AvianPhylogeography

PD fellowship opportunity: Unraveling the origin of birds at the Pernambuco Center of Endemism (PCE): using tools from historical demography and comparative phylogeography to understand the responses of their avifauna to past and future climatic dynamics

The Thematic Project "Evaluation, recovering, and conservation of the endangered fauna of the Pernambuco Center of Endemism", financed by FAPESP (São Paulo Research Foundation) and coordinated by Dr. Luís Fábio Silveira (MZUSP, São Paulo), offers a postdoctoral fellowship for a foreign or Brazilian candidate, who has completed a doctorate not more than six years before the start of the scholarship, to attend the sub-project "Unraveling the origin of birds at the Pernambuco Center of Endemism (PCE): using tools from historical demography and comparative phylogeography to understand the responses of their avifauna to past and future climatic dynamics", under supervision of Dr. Luís Fábio Silveira, from Museu de Zoologia da Universidade de São Paulo, São Paulo state, Brazil.

The specific objectives are to apply molecular markers to perform phylogeographic and demographic analysis of birds from Pernambuco Center of Endemism, northeastern Brazil, and to correlate the results with past and future climatic variables.

This opportunity is open to highly qualified Brazilians and foreigners. It is essential the candidate to have experience and independency to perform both field and laboratorial works, as well as statistical analyses and manuscript preparations. The field work involves capturing birds with the use of mist nets or other methods. It requires capability to drive to the study areas and to interact and communicate with local people, that can be hired as field assistants. Laboratory work will involve DNA extraction, and the development and analyses of molecular markers, such as microsatellites, UCES and SNPS. To achieve these purposes, the candidate must be available to travel to Alagoas state to perform the field work (in the first year), and to perform the laboratorial analyses at Museu de Zoologia da Universidade de São Paulo, São Paulo, Brazil. The selected candidate will be involved in the planning and execution of the research activities mentioned in this notice and will also work in the administration of the laboratory and co-orientation of graduate and undergraduate students.

Values and conditions:

The scholarship lasts 36 months and includes: 1. Monthly income (free of taxes) of R$ 7,373.10 (Brazilian currency), plus 15% of the annual value for expenses related to research (Technical Reserve); 2. Financial support for travel and installation expenses may be requested for selected applicants and the merits will be analyzed by FAPESP upon acceptance of the concession; 3. The candidate must have completed a doctorate not more than six years before the start of the scholarship; before the start of the scholarship; 4. The scholarship requires full dedication to the research project; 5. The grantee may not have any formal or informal employment, nor receive, during the period of the fellowship, a scholarship from another entity, salary or remuneration derived from the exercise of activities of any nature. 6. For the implementation of the scholarship the selected candidate must present all the documentation required by FAPESP.

For complete fellowship rules, go to: http://-www.fapesp.br/270 How to apply: The submission deadline is 25 October 2020. Registration exclusively by email (lfs@usp.br), with the subject "Post-doctoral ARCA project". The following documentation, all in PDF format, is required: 1. An English text with a maximum of 2 pages explaining your motivations to work on this project; 2. Summarized CV including all published papers in the area of the project; 3. Two

letters of recommendation from researchers; 4. Copy of the document attesting PhD/Doctorate conclusion (Diploma).

Selection The selection of the applicants presenting the complete documentation will be made based on candidate's numbers and quality of publications in the area of the project (ornithology), and an interview. Only publications on scientific journals will be considered, and the values attributed to each publication will be 0.5, 1.0, 1.5, 2.0, or 2.5 depending on Journal most recent impact factors (0.1-0.5; 0.6-1.0; 1.1-1.5, 1.6-2.0, and $>$ 2.0, respectively). In case of multiple candidates, only the top five ranked applicants based on curriculum analysis will be invited to the interview (via Skype). In the interview, the capacity of communication in English and/or Portuguese; the experience in the areas of the project, as well as the availability to develop the project will be addressed, and results of this step can imply in the disqualification of the candidate. The result

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Okinawa Taiwan 2 MarineEvolution

Position A) in Japan

Post-doc position in genomics/bioinformatics available at the Marine Eco-Evo-Devo Unit (Laudet's Unit), Okinawa Institute of Science and Technology

The Okinawa Institute of Science and Technology Graduate University (OIST; see www.oist.jp) is a dynamic new graduate university of science and technology in Okinawa Prefecture, Japan. The university is located on 85 hectares of protected forestland overlooking beautiful shoreline and coral reefs. The campus is architecturally striking and the facilities are outstanding (OIST campus video tour). There are no academic departments, which facilitates multidisciplinary research. Outstanding resources and equipment are provided and managed to encourage easy access and collaboration. English is the official language of the University, and the university research community is fully international, with more than 50 countries represented. OIST is rapidly gaining recognition in the worldwide academic community as a model for excellence in education and research.

Position summary: We seek a highly motivated postdoctoral fellow to join the Marine Evo-Evo-Devo Unit/Laudet's Unit at OIST (https://groups.oist.jp/meedu). This unit uses coral reef fishes to better understand the role of hormones in life history transition, in particular metamorphosis. The applicant will carry out a research project on the role of hormones in local adaptation of fish populations using two model species: the Clark's anemone fish (Amphiprion clarkii) and the convict surgeonfish (Acanthurus triostegus). The work will include massive effort in genome sequencing of local populations and the bioinformatic analysis of these data. In addition, transcriptomic analysis of developmental series from several locations will be carried out.

Working Location: 1919-1 Tancha, Onna-son, Okinawa, Japan 904-0495

Qualifications: (Required) 1. PhD in Bioinformatics, Computational Biology or Genomics & Evolutionary Biology (or related topics). 2. Deep knowledge in genome science and bioinformatics. 3. Previous experience in analysing complete genome sequences, preferably from non-model organisms. 4. Proficient in Linux and R. 5. Good knowledge of Perl, python, database programming or web programming would be also desirable. 6. Good interpersonal skills and willing to work with a diverse group of people. 4. Fluency in English

(Preferred) 1. Experience in using non classical fish model organisms 2. Experience in Genome Wide Association Studies (GWAS) 3. Good knowledge in Evo/Devo

Report to: Professor Vincent Laudet

Starting Date: First semester of 2021

Term & Working hours: Term: Full-time, fixed term appointment for 2 years. This contract may be renewed

Compensation & Benefits: Compensation in accordance with the OIST Employee Compensation Regulations

Benefits: -Relocation, housing and commuting allowances -Annual paid leave and summer holidays -Health insurance (Private School Mutual Aid http://www.shigakukyosai.jp/) -Welfare pension insurance (kousei-nenkin) -Worker's accident compensation insurance (roudousha-saigai-hoshou-hoken)

How to Apply: Apply by emailing your Submission Documents to: vincent.laudet [at] oist.jp (Please replace [at] with @ before using this email address)

Submission Documents: - Cover letter summarising research interests, professional experience and career goals - Curriculum vitae - Names and contact information of 3 referees, one of which should be a previous employer.

Application Due Date: Open immediately (Applications

will be screened upon arrival) * OIST Graduate University is an equal opportunity, affirmative action educator and employer and is committed to increasing the diversity of its faculty, students and staff. The University strongly encourages women and minority candidates to apply. * Information provided by applicants or references will be kept confidential, documents will not be returned. All applicants will be notified regarding the status of their applications. * Please view our policy for rules on external professional activities

(https://groups.oist.jp/acd/information-disclosure/). * Further details about the University can be viewed on our website (www.oist.jp).

Recent Publications of the lab in this area Holzer G, Besson M, Lambert A, François L, Barth P, Gillet B, Hughes S, Piganeau G, Leulier F, Viriot L, Lecchini D Laudet V. (2017) Larval fish recruitment to reefs is a thyroid hormone-mediated metamorphosis sensitive to the pesticide chlorpyrifos. eLife, 30;6. pii: e27595.

Salis P, Roux N, Soulat O, Lecchini D, Laudet V. Frederich B. (2018) Ontogenetic and phylogenetic simplification during white stripe evolution in clownfishes. BMC Biology, 16(1): 90.

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This message has been arbitrarily truncated at 5000 characters. To read the entire message look it up at http://life.biology.mcmaster.ca/~brian/evoldir.html

OklahomaStateU EvolutionaryBiomechanics

Post-doctoral position in biomechanics and macroevolution

OVERVIEW OF POSITION A postdoctoral position is available in the Moen lab in the department of Integrative Biology at Oklahoma State University. The position will be part of a team working on a recently funded NSF CAREER grant. The grant bridges integrative research on macroevolution and biomechanics with educational and outreach activities closely aligned with the project'Âs research methods and aims.

The project'Âs key goal is to understand how swimming mechanics affect macroevolution of morphology and performance in frogs and toads. The research will integrate local fieldwork, experimental work with live animals, computational modeling, and phylogenetic comparative biology. Some of this work will be done in collaboration with Chris Richards (Royal Veterinary Academy, UK). The post-doc will also have the opportunity to design and work on related but original projects.

The post-doc will also contribute toward the grant'Âs educational and outreach goals. This includes being the primary mentor for secondary-education science teachers in a summer research program. This program includes visiting Dr. Richards'Âs lab near London. The post-doc will also help coordinate workshops on phylogenetic comparative methods, held every other year.

REQUIREMENTS AND PREFERRED SKILLS A Ph.D. in any related field 'V including biology, engineering, and computer science 'V is required prior to starting the position. Strong applicants will have experience in one or more of the following research areas: biomechanics, functional morphology, computational modeling, and phylogenetic comparative biology. Skills in Matlab, Mathematica, and especially R are helpful but not required. More than specific experience and skills, I am seeking highly motivated applicants with a desire to work both independently and as part of a team. In the Moen lab we strongly value a diverse and inclusive environment, so I particularly encourage applicants that can contribute to that goal.

APPLICATION AND POSITION DETAILS Start date: The position is available immediately, though start date is flexible. Arrival date to OSU may also be flexible given the current COVID pandemic. Initial projects can focus on data analysis and modeling and started from afar. However, mentorship and live-animal work will need to be done at OSU once it is feasible to move here.

Duration: Initial appointment is for one year with opportunity for renewal of up to three years given satisfactory progress and availability of funding.

Application deadline: Review of applications will begin on 15 September, though the position will remain open until a suitable candidate is found.

How: Applications must include: (1) A cover letter describing experience and goals for the position (2) A full CV (3) The names and contact information (phone numbers, email addresses) of three references.

Please submit applications directly to me (daniel.moen@okstate.edu) as a single PDF and with the subject line "Post-doc application: <Your name>". All questions about the position and applying to it can also be directed to me.

Oklahoma State University, as an equal opportunity employer, complies with all applicable federal and state

laws regarding non-discrimination and affirmative action. Oklahoma State University is committed to a policy of equal opportunity for all individuals and does not discriminate based on race, religion, age, sex, color, national origin, marital status, sexual orientation, gender identity/expression, disability, or veteran status with regard to employment, educational programs and activities, and/or admissions. For more information, visit https:///eeo.okstate.edu . DANIEL S. MOEN Assistant Professor Dept. Integrative Biology, Oklahoma State University 517 Life Sciences West Stillwater, OK 74078, USA Tel: (+1) 405-744-6815 Email: daniel.moen@okstate.edu Website: moenlab.okstate.edu

"Moen, Daniel" <daniel.moen@okstate.edu>

SGN Frankfurt ComparativeGenomics

Job offer ref. #12-20021

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. LOEWE Centre for Translational Biodiversity Genomics (LOEWE-TBG) is a joint venture of the Senckenberg Gesellschaft für Naturforschung (SGN), Goethe-University Frankfurt, Justus-Liebig-University Giessen and Fraunhofer Institute for Molecular Biology and Applied Ecology IME aiming to intensify biodiversity genomics in basic and applied research. We will establish a new and taxonomically broad genome collection to study genomic and functional diversity across the tree of life and make genomic resources accessible for societal-demand driven applied research.

The Hiller Lab at the LOEWE-TBG in Frankfurt is looking for an ambitious PostDoc (m/f/d) - Comparative Genomics

The mission of our group is to discover genomic determinants of phenotypic differences between species, which is important to understand how nature's fascinating phenotypic diversity evolved and how it is encoded in the genome. Work in the lab ranges from genome assembly and alignment to annotating genes, developing and applying comparative genomic methods to discover key differences in genes (such as loss, gain, selection) and regulatory elements, and using statistical approaches to associate genomic to phenotypic differences [1-8].

The postdoc will join our efforts to extend our methods repertoire to accurately detect additional types of genomic changes, to adopt them to other taxonomic groups, and to apply them on a large-scale to existing and numerous newly-sequenced genomes generated by us and our TBG collaborators.

Your profile:

§PhD degree in bioinformatics / computational biology, genomics or a related area

§a strong publication record

§excellent programming skills in a Linux environment as well as experience with shell scripting and Unix tools

§previous experience in large-scale comparative genomic data analysis is an advantage.

Salary and benefits are according to a part time public service position in Germany (TV-H E13, 100%). The contract should start as soon as possible and will initially for 2 years, but funding is available to extend it further. The Senckenberg Gesellschaft für Naturforschung supports equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference.

Please send your application before October 25th, 2020 as a single pdf file via email to recruiting@senckenberg.de, mentioning the reference of this job offer (ref. #12-20021). The attached single pdf file should include the CV with publication list, contact information for at least two references, and a summary of your previous research experience (max 1 page).

For more information please contact

Prof. Dr. Michael Hiller (michael.hiller@senckenberg.de).

– Mit freundlichen Grüßen / Best Regards

Jessica Helm Personalsachbearbeiterin

Senckenberg Gesellschaft für Naturforschung (Rechtsfähiger Verein gemäß ç22 BGB) Senckenberganlage 25 60325 Frankfurt am Main

Besucheradresse: Mertonstraße 17-21, 60325 Frankfurt am Main (1. OG)

Telefon/Phone: 0049 (0)69 / 7542 -

Leiterin Personal & Soziales - 1458 Loke, Uta

Stellv. Leiterin Personal & Soziales - 1319 Elsen, Carina

Team Recruiting - 1564 di-Biase, Maria - 1313 Helm, Jessica - 1478 Gajcevic, Isabel

Fax: 0049 (0)69 / 7542-1445

Direktorium: Prof. Dr. Dr. h.c. Volker Mosbrugger, Prof. Dr. Andreas Mulch, Jan-Henning Fahnster

(komm.), Prof. Dr. Katrin Böhning-Gaese, Prof. Dr. Karsten Wesche

Präsidentin: Dr. h. c. Beate Heraeus Aufsichtsbehörde: Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

www.senckenberg.de Recruiting <recruiting@senckenberg.de>

SGN Frankfurt PopulationGenomics

Job offer ref. #11-20019

The Senckenberg Gesellschaft für Naturforschung (SGN) is a member of the Leibniz Association and is based in Frankfurt am Main, Germany. SGN conducts natural history research with almost 800 employees and research institutions in six federal states. Within SGN, the Senckenberg Biodiversity and Climate Research Centre (BiK-F) explores the interactions between biodiversity, climate, and society. Senckenberg BiK-F invites applications for a

PostDoc Researcher (m/f/d) in Population Genomics (100 %)

There is an exciting opportunity for a talented and motivated applicant to join the working group of Prof. Dr. Markus Pfenninger and develop an own research profile. The candidate is expected to work on the population genomics and experimental evolution projects of the Molecular Ecology group.

Your tasks:

§Analyse existing extensive data sets (deciduous trees, non-biting midges, ants, land snails and some more) and publish the results

§Develop own research ideas based on group projects

§Supervise lab members working with population genomics

§Develop course material for population genomics courses and assist in their teaching

§Collaborate with internal and external researchers

§Apply for third-part funding

Your profile:

§PhD in Population genomics or a related field

§strong interest and advanced skills in population genomics

§familiarity with the genome projects of the group

§very good written and oral communication skills in English

§interest to be involved in an international and interdisciplinary group

Salary and benefits are according to a full time public service position in Germany (TV-H E13, 100%). The contract should start as soon as possible - ideally on January 1st, 2021 - and will initially be limited for two years.

The Senckenberg Research Institutes support equal opportunity of men and women and therefore strongly invites women to apply. Equally qualified handicapped applicants will be given preference. The place of employment is in Frankfurt am Main, Germany. The employer is the Senckenberg Gesellschaft für Naturforschung.

Please send your application, mentioning the reference of this job offer (ref. #11-20019) before October 25th, 2020 by e-mail (attachment in a single pdf document) and including a letter outlining your suitability for the post, a detailed CV, contact details of two potential references and, if available, publications to: Senckenberg Gesellschaft für Naturforschung Senckenberganlage 25

60325 Frankfurt am Main

E-Mail: recruiting@senckenberg.de

For scientific enquiries please get in contact with Prof. Dr. Markus Pfenninger, markus.pfenninger@senckenberg.de

– Mit freundlichen Grüßen / Best Regards

Jessica Helm Personalsachbearbeiterin

Senckenberg Gesellschaft für Naturforschung (Rechtsfähiger Verein gemäß ç22 BGB) Senckenberganlage 25 60325 Frankfurt am Main

Besucheradresse: Mertonstraße 17-21, 60325 Frankfurt am Main (1. OG)

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Team Recruiting - 1564 di-Biase, Maria - 1313 Helm, Jessica - 1478 Gajcevic, Isabel

Fax: 0049 (0)69 / 7542-1445

Direktorium: Prof. Dr. Dr. h.c. Volker Mosbrugger, Prof. Dr. Andreas Mulch, Jan-Henning Fahnster (komm.), Prof. Dr. Katrin Böhning-Gaese, Prof. Dr. Karsten Wesche

Präsidentin: Dr. h. c. Beate Heraeus Aufsichtsbehörde:

Magistrat der Stadt Frankfurt am Main (Ordnungsamt)

Mitglied der Leibniz-Gemeinschaft

www.senckenberg.de Recruiting
<recruiting@senckenberg.de>

StAndrews FruitFlyEvolution

3 year postdoc, St Andrews, Scotland

A postdoctoral research fellowship position is available to work with Mike Ritchie at the University of St Andrews on evolutionary genetics and sexual selection in fruit flies. The researcher will use gene editing techniques, population genomics analyses, and behavioural experiments to examine the role of sexual selection in driving genomic divergence in Drosophila pseudoobscura. Mutants will be created in candidate genes using CRISPR techniques and the behavioural, reproductive and sex-specific fitness effects of these mutations will be assessed. The project is funded by the NERC, UK, and the work is in collaboration with Rhonda Snook at the University of Stockholm, Sweden.

The position is available for 3 years, hopefully starting before the end of 2020. The work will take place in the Centre for Biological Diversity at the University of St Andrews, Scotland. The University of St Andrews regularly ranks in the top-10 UK and top-100 worldwide universities. It has one of the highest proportions of international staff, students and research collaborations in the higher education sector worldwide, ensuring a vibrant and sustainable research culture. The School of Biology is committed to the pursuit and delivery of research at the highest international level. Research is organised into three major interdisciplinary centres: the Scottish Oceans Institute (SOI), Biomedical Sciences Research Complex (BSRC) and Centre for Biological Diversity (CBD). This project will be hosted within MGR's laboratory in the CBD, where MGR oversees a Molecular Ecology laboratory used by 7 PIs. He also maintains a Drosophila facility used by 5 PIs, with the help of two University technicians. Fly equipment includes a media preparation and cleaning service, behavioural observation rooms, a microinjection facility and fluorescent microscopes.

Applications are particularly welcome from women, people from the Black, Asian, Minority or Ethnic (BAME) community and other protected characteristics who are under-represented in Research Fellow posts at the University. The University is committed to equality for all, demonstrated through our working on diversity awards (ECU Athena SWAN/Race Charters; Carer Positive; LGBT Charter; and Stonewall). More details can be found at http://www.st-andrews.ac.uk/hr/edi/-diversityawards/ Informal enquiries can be sent to Mike at mgr@st-andrews.ac.uk.

Formal details are available at https://www.vacancies.st-andrews.ac.uk/Vacancies/W/3605/0/277724/889/-research-fellow-ar1829dd Please note that applications must be made through the official channels at that link, by 6th November. Mike Ritchie: https://orcid.org/-0000-0001-7913-8675 Mike Ritchie Centre for Biological Diversity, School of Biology,

University of St Andrews, Fife. Scotland KY16 9TH UK I do not expect people to answer e-mails outside of office hours

Michael Ritchie <mgr@st-andrews.ac.uk>

StockholmU EvolutionaryGenomics

Researcher position at Stockholm University

We have an open position for a researcher in the ERC funded project SuperGenE.

The aim of this project is to investigate the genomic architecture underlying the balanced floral polymorphism termed distyly in wild Linum species. Specifically, the project aims to investigate the evolution of the genomic region (supergene) that governs distyly and the genetic causes and population genomic consequences of loss of distyly. Within the project we are generating and analyzing several new high-quality de novo genome assemblies for wild Linum species, as well as large population genomics, comparative genomics, and expression data sets.

The researcher will be responsible for comprehensive genomic analyses to address evolutionary genomic questions. The focus of this position is on bioinformatic and evolutionary analyses of large-scale genomic and transcriptomic data sets.

Researchers are appointed primarily for purposes of research and must hold a doctoral degree. In the appointment process, special attention will be given to research skills, in particular pertaining to genomic analyses. A strong interest in and training in bioinformatics, evolutionary genetics, population genomics or phylogenomics

is a merit.

The researcher will be based in the research group of Dr. Tanja Slotte (http://tanjaslottelab.se). The position is initially for one year, with possibility of extension, and the deadline to apply is October 12, 2020. Start date as per agreement.

The complete ad with information on qualification requirements and instructions on how to apply is available here: https://bit.ly/3kxSlqc For more information, please contact tanja.slotte@su.se directly.

Tanja Slotte PhD, Associate Professor SciLifeLab Fellow Department of Ecology, Environment and Plant Sciences (DEEP) Stockholm University 106 91 Stockholm

E-mail: tanja.slotte@su.se

"Tanja.Slotte@su.se" <Tanja.Slotte@su.se>

StowersInst 2 CavefishEvolution

RESEARCH SPECIALIST (EVOLUTIONARY GENETICS) The Rohner Lab at the Stowers Institute for Medical Research has an opening for a Research Specialist to further develop tools for the emerging research organism Astyanax mexicanus. Visit http://-research.stowers.org/rohnerlab/for more information on the research in the lab.

The selected candidate will help with day to day operations of the lab and develop new tools for the cavefish system, such as transplantions, genome editing, viral mediated gene transfer, generation of cell lines, transgenic lines and others. The candidate will receive strong support from the core facilities that provide advice, training and service to enhance the Institute's interdisciplinary and collaborative research programs.Current core facilities are staffed by over 100 scientists with expertise in bioinformatics, cytometry, histology, imaging, microarray, next generation sequencing, transgenic and ES cell technologies, proteomics and molecular biology. The Stowers Institute offers a highly competitive compensation and benefits package.

The Rohner Lab has a strong commitment for mutual success and is dedicated to providing support for all lab members. Minimum requirements include a doctoral degree in the life sciences, chemistry, or biomedical engineering with significant postdoctoral experience in one or more of the following areas: molecular biology, developmental biology, genetics, genomics, evodevo, physiology.

In addition to excellent verbal and written communication skills, successful candidates must be dynamic and able to motivate others, and being creative and proficient at problem solving.

Application Instructions:To apply, please submit(1) a brief cover letter, (2) a current CV, and (3) contact information for two professional references to Dr. Nicolas Rohner atnro@stowers.orgcc:careers@stowers.org.

Applications due on October 15th, 2020, after that position will remain open until filled.

AND

POSTDOCTORAL RESEARCH ASSOCIATE (EVOLUTIONARY GENETICS) The Rohner Lab at the Stowers Institute for Medical Research has an opening for a Postdoctoral Researcher to develop an independent project investigating the molecular, genetic, or developmental mechanisms of how cavefish thrive under extreme metabolic conditions. The lab has previously found that the cavefishAstyanax mexicanusdevelop high-blood sugar and insulin resistance as part of their natural strategy to survive in the caves but without the usually associated health problems (Riddle et al. Nature. 2018 Mar 29;555(7698):647-651). Furthermore, we recently found that cavefish are resilient to developing inflammation in adipose tissue due to a switch from innate to adaptive immunity (Peuss et al. Nature Ecology & Evolution 2020 Jul 20). Visithttp://research.stowers.org/-rohnerlab/for more information.

The selected candidate will investigate the molecular mechanism underlying these or other impressive adaptations. The candidate will closely work with the core facilities at the institute to perform single-cell RNA sequencing, proteomics, and functional validation in vitro and in vivo. A computational/bioinformatic focus is also possible. The candidate will receive strong support from the core facilities that provide advice, training and service to enhance the Institute's interdisciplinary and collaborative research programs.Current core facilities are staffed by over 100 scientists with expertise in bioinformatics, cytometry, histology, imaging, microarray, next generation sequencing, transgenic and ES cell technologies, proteomics and molecular biology. The Stowers Institute offers a highly competitive compensation and benefits package.

The position is funded for an initial period of one year but can be renewed for up to five years in order to allow enough time to develop a research program/publication record that makes the postdoc a strong candidate for an independent position. The Rohner Lab has a strong commitment for mutual success and is dedicated to

providing support for all lab members.

Minimum requirements include a doctoral degree in the life sciences, chemistry, or biomedical engineering. Experience in one or more of the following areas is desirable: molecular biology, developmental biology, genetics, genomics, evodevo, physiology.

In addition to excellent verbal and written communication skills, successful candidates must be dynamic and highly motivated, work independently and creatively, able to work in a team-oriented environment, and proficient at problem solving.

Application Instructions: To apply, please submit(1) a brief cover letter, (2) a current CV, and (3) contact information for two professional references to Dr. Nicolas Rohner atnro@stowers.orgcc:careers@stowers.org.

Applications due on October 15th, 2020, after that position will remain open until filled.

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Stuttgart TarsierEvolution

Postdoc position (m/f/d) in primatology/evolutionary biology at the State Museum of Natural History Stuttgart, Germany Homepage: www.naturkundemuseum-bw.de The State Museum of Natural History Stuttgart (SMNS) is one of the largest natural history museums in Germany dedicated to studying and documenting the evolution of organisms and ecosystems. One focus of research within the Department of Zoology is on the evolution of tarsiers, tiny Southeast Asian primates. We seek an experienced and highly motivated researcher (m/f/d) in the area of primatology. The successful candidate will be expected to focus on links between population dynamics and the phylogeny of Sulawesi tarsiers (Tarsius spp.) and to test several hypotheses related to the taxonomy and demography of selected species. The projects will draw upon more than 20 years of tarsier research by our group (PI Dr. Stefan Merker) and a large collection of DNA samples curated at the SMNS. Depending on the COVID-19 situation, studies may include field work on Sulawesi. The postdoc will not be required to teach.

The successful candidate is expected to have

- a doctoral/PhD degree in biology, with a focus on primatology or mammal biogeography - a record of publications in renowned international journals - experience and methodological competence in molecular lab work - field work experience in tropical rainforests - experience in working with international collaboration partners - the ability to work both independently and in a team - an excellent command of written English - the strong wish to jointly generate and publish research results within a relatively short period of time

Desired qualifications include

- expertise in phylogenetic reconstruction - expertise in demographic inferences based on genetic data - experience in microsatellite-based genotyping - field work experience in Indonesia - a strong interest in biogeography

Salary will follow E13 TV-L (German civil service salary scale). Beginning January 01, 2021, the position is limited to 1.5 years. Please send your application including a letter of motivation, CV, list of publications, description of your research experience and contact information of two references exclusively online (in one file, max 5 MB) to postdoc.zoologie@smns-bw.de by October 25, 2020. Please note that your incoming data will not be automatically encrypted. Job interviews are scheduled for November 6, 2020. For further information, please contact Dr. Stefan Merker: Tel. 0049-(0)711-8936-246, stefan.merker@smns-bw.de.

We offer flexible and family-friendly working hours and support presenting research results at national and international conferences. The SMNS is an equal opportunity employer that values diversity, tolerance and excellence. Preference will be given to applicants with severe disabilities if equally qualified. Information on data protection law for applicants can be found on our homepage under ???Jobs??? (in German).

Stefan Merker <stefan.merker@smns-bw.de>

SwissTPHSwitzerland MtuberculosisBioinformaticsEvol

The Swiss Tropical and Public Health Institute (Swiss TPH) is a world-leading institute in global health with a particular focus on low- and middle-income countries. Associated with the University of Basel, Swiss TPH combines research, services, and education and training

at the local, national and interna-tional level. About 850 people from more than 80 nations work at Swiss TPH focusing on infectious and non-communicable diseases, environment, society and health as well as health systems and interventions.

The Tuberculosis Research Unit at Swiss TPH is looking for a person to join the team as a: ERC-funded Postdoctoral Fellow in Bioinformatics

The Unit conducts cutting-edge research on host-pathogen interaction at the lab/field interface. A particular focus is on the population genomics of Mycobacterium tuberculosis (Mtb) and its interaction with human genetic diversity as well as on the evolution of antibiotic resistance. Our Unit generates large amounts of population- and functional genomic data (e.g. RNAseq, large-scale proteomics and metabolomics). The candidate is expected to work on his/her own specific project as well as in close collaboration with other members of the Unit.

This position is funded through a European Research Council (ERC) Advanced Grant recently awarded to Prof. Sebastien Gagneux and will initially be for 2 years with potential for extension. Salary will be according to the regulations of the Swiss National Science Foundation.

Main responsibilities include:

- Perform population, comparative and functional genomics analyses of Mtb - Identify links between Mtb genomic variation and experimental/clinical phenotypes - Explore interactions between Mtb diversity and human genomic variation - Study the evolution of Mtb antibiotic resistance within- and between hosts

You should have the following experiences and skills:

- Expertise in next-generation sequence analysis - Expertise in statistical analysis of omics data and data integration - Knowledge of programming languages common to bioinformatics (R and phyton) - Excellent command (speaking and writing) of English

Please submit your application online via the link provided below. If you are interested, please submit your application including:

- CV - Motivational letter - Diploma - Names and contact information (email or phone) of 3 references

Please note that we can only accept applications via our online recruiting tool: https://recruitingapp-2698.umantis.com/Jobs/All. Applications via e-mail or external recruiter will not be considered.

Starting date is 1 January 2021 or upon agreement and the position is based in Basel.

Contact

For further information about the position, please contact Prof. Sebastien Gagneux (email: sebastien.gagneux@swisstph.ch), Head of Tuberculosis Research.

"d.brites@swisstph.ch" <d.brites@swisstph.ch>

TexasAMU Bioinformatics

Postdoctoral Research Associate Bioinformatics and Behavioural Genomics Delmore Lab, Texas A&M University delmorelab.com

POSITION

We are looking for a postdoc to collaborate on projects related to the genetic basis of behavioral traits and their role in speciation. We focus primarily on courtship behavior and migration in songbirds and there will be an emphasis on the use of bioinformatics tools. The exact projects can be flexible but we are especially interested in having someone join our efforts on an existing project comprised of several gene expression datasets. This is a great opportunity get your hands on some genomic data right away while developing your own ideas for future projects.

ENVIRONMENT

We are part of the Biology Department at Texas A&M (https://bio.tamu.edu) along with the interdisciplinary programs of Genetics (https://genetics.tamu.edu) and Ecology and Evolutionary Biology (https://-eeb.tamu.edu). These programs bring together members of many departments across campus from a variety of scientific and international backgrounds. The atmosphere is collaborative, enthusiastic and supportive and Texas A&M is Tier 1 institution with a huge number of research facilities. College station is a small, friendly university town located between Austin and Houston.

All this being said, we recognize COVID-19 has made travel and in person work a challenge for many so we are also open to discussing remote options.

EDUCATION AND EXPERIENCE

PhD in biology, bioinformatics, computational biology, computer science or related fields. Experience working independently with next-generation sequencing data and familiarity with the use of data on gene expression and/or epigenetic markers. We expect applicants to exhibit a desire to work collaboratively and help maintain

a supportive environment in our lab.

APPLICATION

Applicants should send (1) a letter of motivation that includes their research interests and career goals and (2) a CV that includes the names, emails and phone numbers of at least two references to Kira Delmore (kdelmore@bio.tamu.edu). Applications will be reviewed as received. Please get in touch if you have any additional questions.

"Delmore, Kira" <kdelmore@bio.tamu.edu>

Trondheim Norway EvolutionaryEcol

Postdoctoral research position in quantitative evolutionary ecology: Links between evolutionary genetics and population dynamics in fragmented populations

We have a fully-funded 4-year postdoctoral position in quantitative evolutionary ecology available at the Centre for Biodiversity Dynamics, Department of Biology, Norwegian University of Science and Technology (https://www.ntnu.edu/cbd).

About the position Properly evaluating genetic threats to population persistence remains a major challenge in evolutionary genetics and conservation biology. Specifically, we still need better understanding of key mechanisms underlying inbreeding depression and loss of genetic variation in nature, and better understanding of how these processes ultimately affect the dynamics and viability of fragmented populations. The four-year postdoctoral position provides an exciting opportunity to address these questions, as part of a major research project funded by the Research Council of Norway (RCN).

The postdoctoral researcher will work closely with Professors Henrik Jensen and Jane Reid and Associate Professors Stefanie Muff and Aline M. Lee at CBD, NTNU, and with two associated PhD students and wider national and international collaborators.

Job description The postdoctoral project will involve advanced statistical analyses of extensive genomic data (genome-wide high-density SNP genotypes) and multigenerational pedigrees and field data on phenotypes, survival, reproduction and dispersal from subdivided house sparrow (Passer domesticus) populations along the coast of Norway. It will additionally involve stochastic population modelling.

Specifically, the first aim is to integrate high-quality genomic and demographic data to identify the causes of spatio-temporal variation in inbreeding and inbreeding depression, and examine the occurrence and strength of drift load. The second aim is to utilise novel quantitative genetic and genomics approaches to quantify the effects of inbreeding and drift on adaptive potential. Finally, the empirical results will be combined with simulations, population viability analyses and results from other parts of the RCN project to evaluate the importance of genetic processes and spatial structure for the short- and long-term viability of fragmented populations.

While the project primarily involves data analysis and modelling, there will also be opportunities for the postdoctoral researcher to participate in fieldwork in the focal house sparrow populations on the coast of northern Norway.

Read more about the position and how to apply here: https://www.jobbnorge.no/en/available-jobs/job/-192426/postdoctoral-research-position-in-quantitative-evolutionary-ecology-links-between-evolutionary-genetics-and-population-dynamics-in-fragmented-populations henrik.jensen@ntnu.no

UBath DiseaseEvolution

Applications are invited for a Postdoctoral Research Associate to work on the project entitled "The eco-evolutionary dynamics of age-specific resistance to infectious disease". Full details: https://bath.ac.uk/jobs/-CC7798. Application deadline: 12th October 2020.

The project is led by Dr Ben Ashby (Principal Investigator, University of Bath, UK) and Dr Emme Bruns (Co-Investigator, University of Maryland, US). It is funded by the Natural Environment Research Council (NERC) grant NE/V003909/1.

The project seeks to study the eco-evolutionary dynamics of host resistance to infection at various life stages, and in turn, how age-specific resistance affects the evolution of infectious diseases. It builds on the recent work published by the two investigators in this area. There will also be opportunities to contribute to and develop projects in the general area of evolutionary biology of hosts and parasites.

You should have a PhD in mathematics or a related discipline with experience of mathematical biology. We

are looking for someone who already has some expertise and knowledge relevant to the project, in particular in evolutionary or eco-evolutionary modelling with some experience of coding. You will also be enthusiastic about the subject and willing to learn new methods and areas of mathematics and biology when the research on the project requires it.

You will be able to focus on your research as the post carries no teaching or administrative duties. You will be encouraged to conduct research visits and will have access to travel funds to do so.

This is a full-time role based at the University of Bath, and is being offered on a fixed-term basis for 2 years to start after 1 December 2020 by mutual agreement. For any informal queries or questions please contact Dr Ben Ashby (b.n.ashby@bath.ac.uk), however, please ensure that your application is submitted via the University website.

We have made a positive commitment towards gender equality and intersectionality receiving a Silver Athena SWAN award, and we are actively working towards a Silver award. We are a family-friendly University, with an increasingly agile workforce, we are open to flexible working arrangements. We're also proud to be a disability confident leader and are happy to discuss any reasonable adjustments you may require. We are an Autism Friendly University. Please speak to our Ambassador for Autism on how we endeavour to adapt our process for you.

Ben Ashby <benashbyevo@gmail.com>

UBath EvolutionDisease 2

Note: corrected broken link (hopefully)

Applications are invited for a Postdoctoral Research Associate to work on the project entitled "The eco-evolutionary dynamics of age-specific resistance to infectious disease". Full details: https://www.bath.ac.uk/-jobs/Vacancy.aspx?refÃ7798. Application deadline: 12th October 2020.

The project is led by Dr Ben Ashby (Principal Investigator, University of Bath, UK) and Dr Emme Bruns (Co-Investigator, University of Maryland, US). It is funded by the Natural Environment Research Council (NERC) grant NE/V003909/1.

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Ben Ashby <benashbyevo@gmail.com>

UCalifornia Davis PopulationBiologyFellowship

DEADLINE: November 2, 2020 POSTDOCTORAL FELLOW IN POPULATION BIOLOGY

The Center for Population Biology at UC Davis invites applications for a Postdoctoral Fellowship in Population

Biology, broadly defined to include ecology, phylogenetics, comparative biology, population genetics, and evolution. We particularly encourage applications from candidates that have recently completed, or will soon complete, their PhD.

The position is for TWO YEARS, subject to review after one year, and can begin as early as July 1, 2021. This position is covered by a collective bargaining unit. It has a starting annual salary of $53,460 plus benefits, and $6,000 per annum in research support. The Fellow will be a fully participating member in the Center for Population Biology and will be expected to have an independent research program that bridges the interests of two or more CPB faculty research groups. The postdoctoral fellow plays a leadership role in our community with past fellows acting as important mentors, collaborators, and role models to our graduate students. We strongly encourage candidates to contact appropriate faculty sponsors before applying. We also ask that each Fellow propose a workshop, discussion or lecture series that they could offer to the community of population biologists at UC Davis; faculty sponsors or the Director of CPB, Graham Coop, can provide additional input on this aspect of the fellowship. For samples of past workshop abstracts and more information about UC Davis programs in population biology, see https://cpb.ucdavis.edu/cpb-postdoc-fellowship. Workshop proposals can focus on broad research techniques or topics, career development, or diversity equity and inclusion activities.

ONLINE APPLICATION: Interested candidates should submit a cover letter, a CV, a short description of research accomplishments (1-2 pages), a short description of proposed research including potential faculty mentors (1-2 pages), a brief description of their proposed workshop (1 page or less), copies of two publications, and a statement of contributions to diversity, equity, and inclusion. All documents should be submitted in PDF format at: https://recruit.ucdavis.edu/JPF03801 (this job number and application link will be open and available for application input on or around September 24, 2020).

Applicants should also provide the information requested for three referees. Once entered, applicants will electronically request letters from referees who will then be prompted by email with upload instructions. The postdoctoral fellow plays a leadership role in our community with past fellows acting as important mentors, collaborators, and role models to our graduate students. Therefore, we ask the applicant to please advise the reference writers to comment on the candidate's past roles as a mentor and/or a community member. Refer to the on-line instructions for further information.

For full consideration, applications (including letters of reference) must be received by November 2, 2020. E-mail questions to smmann@ucdavis.edu.

The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for diversity.

– Graham Coop Professor, Department of Evolution and Ecology Center for population biology. University of California, Davis gcbias.org < http://-www.eve.ucdavis.edu/gmcoop/ > Storer Hall, One Shields Ave., Davis, CA 95616 Ph: 530-752-1622 Fax: 530-752-1449

gcoop79@gmail.com

UCambridge CoevolutionGenetics

Applications are invited for a postdoctoral Research Associate to work with Professor Frank Jiggins in the Department of Genetics, University of Cambridge and Dr Ben Longdon, University of Exeter, on a Leverhulme Trust funded research project 'A new laboratory model to test the principles of host-parasite coevolution'. The successful candidate will be based in the Department of Genetics, University of Cambridge, and will conduct fundamental research aimed at understanding the evolutionary dynamics of coevolution.

Taking advantage of our detailed knowledge of the genes controlling the susceptibility of Drosophila to viral infection, the post holder will investigate the processes underpinning coevolution by tracking allele frequencies within laboratory populations. The post requires creative candidates who are enthusiastic about taking experimental approaches to understand the processes governing coevolution in nature. Successful candidates will have an advanced understanding of evolutionary processes and concepts. It will be advantageous to have previously worked on coevolution.

Full Details: https://www.jobs.cam.ac.uk/job/26935/
"F. Jiggins" <fmj1001@cam.ac.uk>

UChicago ComputationalGenomics

Post-doctoral position in computational biology and immunology

The Barreiro and Li labs at the University of Chicago are looking to recruit a postdoctoral fellow to join our efforts on understanding the genetic basis of immune traits. Our labs use a combination of functional genomics and genetics to answer central questions in immunology, disease, and gene regulation with strong relevance to medicine and evolutionary biology. The exact projects for prospective postdocs are flexible and applicants are encouraged to propose their own projects, as long as they fit within the lab's general interests. Examples of ongoing work in our labs includes (i) characterization of population differences in the immune response in humans at single cell resolution; (ii) evaluating the role of epigenetic changes in the regulation of innate immune responses; and (iii) using single cell RNA-seq to identify biomarkers of response to biologic treatments in Crohn's disease.

Postdoctoral applicants should have demonstrated experience with genomic data analysis. Strong programming and bioinformatics skills are essential. Candidates with experience in gene expression data analysis, particularly using single cell data are strongly encouraged to apply.

Postdocs in our labs are encouraged to develop collaborations with other groups and to start developing an independent research program. To apply for the position please send an email to Luis Barreiro (lbarreiro@uchicago.edu) and/or Yang Li (yangili1@uchicago.edu) including a cover letter and your resume/CV together with contact information for at least two references. Informal inquiries are also welcome. We will start evaluating applicants on October 15th but start dates are negotiable.

Luis Barreiro <lbbarreiro@gmail.com>

UCopenhagen PlantMicrobiomeCoEvolution

Appointment

Postdoc: Plant-microbiome co-evolution

Description

We offer a 2-year postdoc position to a Computational biologist/Bioinformatician in the DFF-FNU project: Plant-microbiome interactions in modern and ancient barley. The project is a collaboration between Department of Biology (BIO), Department of Plant and Environmental Sciences (PLEN), Faculty of Science, University of Copenhagen, GLOBE Institute (Center for Macroecology, Evolution and Climate), and Department Agroecology (AGRO), Aarhus University. The Post Doc applicant candidate will be part time on GLOBE institute and part time on BIO and should expect tight collaboration with research activities at all four institutions.

The deadline for applications is 30th September 2020, 23:59 GMT+1.

Further information about the project on: https://www1.bio.ku.dk/projects/plant-microbiome-interactions-in-modern-and-ancient-barley/ Rute da Fonseca (Globe Institute) will be the main responsible. Flemming Ekelund (BIO), Kristian Holst Laursen (PLEN), and Mette VestergÃ¥rd (AGRO) will be co-responsible.

The position is open from 1 January 2021 or as soon as possible thereafter.

The main aim of the project is to assess the extent of plant-microbiome interactions between varieties of ancient as well as modern barley strains and different microbiomes under different nutrient regimes. We will investigate to which extent modern varieties have lost the ability to interact with the microbiome with focus on plant/bacteria/micro-predator interactions. We expect that multi-element plant tissue analyses, combined with sequencing of the root/leaf transcriptome, will reveal genes and pathways involved in these interactions. In parallel, we will sequence the microbiome to capture the underlying microbial diversity dynamics that influence the interactions. Our results will be a significant contribution to the understanding of the role of the microbiome in plant production, and may facilitate more efficient nutrient utilization, higher disease resistance and better plant quality.

You will be part of an interdisciplinary research team that jointly addresses one of the major challenges in modern biology; i.e. how to understand, link and take advantage of the relations between plants and the soil microorganisms that surround them. You will be processing multiple datasets consisting of microbiomes and transcriptomes and establish the relationship between the plant genetic background and its ability to interact

with the microbiome under different stress scenarios. Dissemination of research findings via scientific articles is also a major focus point and documentation of good writing skills is important.

Qualifications We seek highly motivated individuals with (most, but not necessarily all of) the following qualifications: 1) A successful PhD in Biology, Computational Biology, Molecular Microbial Ecology, Plant Molecular Biology or a related discipline 2) Strong computational and analytical skills and experience analysing large sequencing datasets, including genomic, transcriptomic and microbiome data 3) Knowledge of Python or other scripting/programming languages is essential 4) Knowledge of R and other statistical software is preferred 5) An adequate publication record (appropriate for career stage, including first-author publications) 6) Documented ability to analyse literature input and original data and present it understandable in oral and written English 7) Collaborative skills 8) Ambition, enthusiasm and aim for a career in science

A genuine interest in soil organisms and plants and basic skills in microbiology and plant nutrition will be an advantage. More details and link to the application form:

https://employment.ku.dk/faculty/?show=3D152528
rute.r.da.fonseca@gmail.com

UGlasgow BacterialCropDisease

One week left - Closing Oct. 2nd

Research Assistant/Associate

University of Glasgow

Vacancy Reference Number: 040992

We seek an exceptional post-doctoral candidate to take a leading contribution to experimental data collection, and both laboratory- and bioinformatics-based analyses associated with a consortium grant project funded by the Biotechnology and Biological Sciences Research Council (BBSRC), entitled “A Decision Support tool for Potato Blackleg Disease (DeS-BL). This is part of a broader BBSRC initiative to improve control of bacterial diseases in crops.”

The candidate will work with the Glasgow part of the team: Dr Joel Milner (School of Life Sciences and Institute of Cell, Molecular & Systems Biology), Professor Barbara Mable (Institute of Biodiversity, Animal Health and Comparative Medicine), and Dr. Umer Zeeshan Ijaz (School of Engineering). The Glasgow team will lead work packages on assessing: 1) the consequences of agricultural practices (e.g. irrigation, use of cover crops) on microbial diversity associated with potato roots; 2) the potential to manipulate benign components of the microbial community to reduce risks of infection with critical bacterial pathogens; and 3) the identification, synthesis and testing of antimicrobial proteins for treatment/prophylaxis (focusing on Pectobacterium, causing blackleg disease).

Specifically, the job requires experience with molecular biological techniques (e.g. cloning, protein expression), as well as an aptitude for database mining, processing and cutting-edge analysis of omics datasets. It will thus provide exceptionally broad training across a wide range of skills and will extend from basic science through applied questions that could directly inform current agricultural management practices.

As a successful candidate you will also be expected to contribute to the formulation and submission of research publications and research proposals, as well as help manage and direct this complex and challenging project, as opportunities allow.

You will be integrated with the full project team, led by the James Hutton Institute, but involving partners from other academic institutions and agricultural stakeholders.

More details about the importance of the disease can be found here: https://ipm.hutton.ac.uk/topics/details/-blackleg-potato Our multi-disciplinary team:

Umer Zeeshan Ijaz: http://userweb.eng.gla.ac.uk/-umer.ijaz/ Barbara Mable: https://www.gla.ac.uk/-researchinstitutes/bahcm/staff/barbaramable/ Joel Milner: https://www.gla.ac.uk/schools/lifesciences/-staff/joelmilner/ For informal enquiries, please contact Barbara Mable (Barbara.mable@glasgow.ac.uk)

For full details of the job description and details on how to apply, follow this link (https://www.gla.ac.uk/-explore/jobs/) and search for vacancy reference 040992.

Barbara Mable <Barbara.Mable@glasgow.ac.uk>

UJena EvolutionaryGenomics

Research assistant position in Evolutionary Ecology and Genomics

The Population Ecology Group at the Institute of Ecology and Evolution, Faculty of Biological Sciences, Friedrich-Schiller-University Jena, offers a research assistant position. The position is available for 3+3 years with a starting date to be negotiated.

Candidate requirements

We are looking for a candidate holding a PhD degree who plans to develop an independent research profile related to the topics already represented in the Population Ecology Group Jena. Backgrounds in ecological genomics or quantitative genetics are particularly fitting, but candidates with strong expertise in meta-analytic methods and/or behavioral ecology will also be considered. A vision for an own research program is required and proposals using insects or birds as model systems are particularly suitable. Strong quantitative skills are expected and demonstrated bioinformatic expertise is particularly desirable. A demonstrated record of scientific publications is essential. The position involves teaching of 4 hours per week and semesters and the ability to teach undergraduates in German will therefore be beneficial.

Research environment

The Population Ecology Group Jena (www.popecol.uni-jena.de) studies the process of adaptation in laboratory and field experiments using quantitative genetic and ecological genomic tools. A special focus lies on the maintenance of phenotypic polymorphisms. Furthermore, we study the evolutionary ecology of behavior and individual differences and contribute to the development of advanced statistical tools for analyzing evolutionary and ecological datasets. The main model system are grasshoppers that we use for within-species and comparative analyses. We are involved in two coordinated programs funded by the DFG and are collaborating with the Max Planck Institute for Chemical Ecology Jena, and the German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig. Jena offers a lively and collaborative research environment with a large faculty of Biological Sciences and several research institutes devoted to the life sciences. Base funding for research is available and independent grant applications are encouraged.

How to apply

The position is available for 3+3 years. Payment will be based on the tariff contracts for the public service (E13). The Friedrich-Schiller University Jena is an equal opportunity employer and strives to employ both genders equally, as well as to employ more individuals with disabilities. Therefore, we encourage all applicants, independent of their nationality, gender or disability, to apply for this position. Please send your application as a single pdf in English, including a description of your intended research program (2 pages), CV of no more than 4 pages, list of scientific publications, relevant certificates and the names of two referees to the following address: Prof. Dr. Holger Schielzeth, Friedrich Schiller University Jena, Institute of Ecology and Evolution, Dornburger Strasse 159, 07743 Jena, E-Mail: holger.schielzeth@uni-jena.de. Evaluation will start on 10/10/2020 and will continue until the position is filled.

Holger Schielzeth <holger.schielzeth@uni-jena.de>

UKonstanz Bioinformatics

We are seeking to hire a bioinformatics programmer/postdoc/research scientist with a strong expertise in next-generation sequencing data analysis/assembly, statistics, and database/framework/application development for the analysis of markergene (metabarcoding), WGS, RNA-Seq, RAD-Seq, and metagenomic-/transcriptomic data. The successful candidate will join the newly established Sequence Analysis Core Facility ("SequAna") that aims to support nucleic acid-based research from experimental planning, to sample preparation/choice of sequencing platform, to data management, analysis, and visualization. The position will allow you to work on a variety of research projects and with different research groups. The position also includes a teaching and supervision component. The core facility is led by Professor Christian R Voolstra who serves as the spokesperson and is jointly run by a user committee of 5 PIs.

The position is initially available for 2 years. The salary range is roughly between 'Ã4,000 to 'Ã6,000 per month based on years of experience.

Qualifications: - Ph.D. in molecular biology, bioinformatics, or related is required; - Excellent English communication and writing skills are expected; - Expertise in Linux

OS administration, Python/R programming/scripting languages, distributed version control systems (e.g., Github), workflow/pipeline management systems (e.g., Nextflow, Snakemake), NGS amplicon analysis frameworks (e.g. MOTHUR/QIIME), core bioinformatic tools for curation/assembly/analysis of sequencing data (e.g. STRUCTURE, SALMON, DESeq, STACKS, ABySS, Velvet, ALL-PATHS, SPAdes, etc.), and database creation/curation/querying (e.g., NCBI, EnsEMBL, SILVA databases; relational database implementation; database APIs) are required; - Expertise in the development of analytical frameworks and applications including an understanding of full stack development is highly advantageous; - Strong statistical/modelling skills (multivariate statistics, non-parametric statistics, power calculations, etc.) are required; - Good knowledge about next- and third-generation sequencing platforms is required.

The research environment is collaborative, international, and operates in English. Further information on research at the University of Konstanz is accessible at https://www.uni-konstanz.de. The University of Konstanz and the Department of Biology are among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern border between Germany and Switzerland. The University of Konstanz is an equal opportunity employer.

To apply: Please send cover letter summarizing your qualifications and interests, curriculum vitae, and the names and contact information for at least 2 references to christian.voolstra@uni-konstanz.de. The position is to be filled as soon as possible.

Christian R Voolstra <chris.voolstra@gmail.com>

UKonstanz TaxonomySpeciesDelimitation

Postdoctoral position in Taxonomy, Species Delimitation & Evolutionary Biology

University of Konstanz, Department of Biology, Chair of Zoology and Evolution

Konstanz, Germany.

Start Date: October 1st, 2020 or later

Description

A post-doctoral scholar position will be available after the 1st of October at Prof. Axel Meyer lab to work on DFG funded work related to species delimitation in sympatric and allopatric populations of live-bearing fishes. The project aims at integrating whole-genome resequencing data and phenotypic data to conduct species delimitations applying coalescent-based integrative taxonomic approaches and to validate these by contrasting their outcome to empirically determined degree of reproductive isolation among species pairs. We seek applicants with a background in some of the following areas: evolutionary biology, taxonomy, phylogenetics and field research. We encourage applicants with bioinformatic skills.

The Meyer Lab at the Department of Biology at University of Konstanz, is interested in the origins of adaptations, speciation, and phylogenomics of fishes, in particular the cichlid fish adaptive radiations from Nicaragua and Africa. A total of three research groups two of which are headed by Junior Group Leaders make up the evolutionary biology group (20 members total in the lab).

The University of Konstanz and the Department of Biology are among the most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern border between Germany and Switzerland. The University of Konstanz and the Department of Biology are among them most highly ranked institutions in Germany and provide a lively and academically outstanding research environment. Konstanz is a lovely historic town located on Lake Constance on the southern border between Germany and Switzerland. Appointments are initially for three years and it comes with a competitive salary,and excellent health and retirement benefits.

Qualifications

Required: PhD in Taxonomy, Ecology and Evolutionary Biology or Genetics/Genomics.

Preferred: Experience working with genomic data, a strong conceptual background in evolutionary biology, experience with field work.

Application Instructions

To Apply Submit the following documents to julian.torres-dowdall@uni-konstanz.de: - One page Cover Letter - C.V. - A relevant publication or manuscript in preparation - Contact information for 2 References

Applications will be considered until the position is filled.

Informal inquiries about the position are encouraged:

julian.torres-dowdall@uni-konstanz.de

JuliAn Torres-Dowdall < julian.torres-dowdall@uni-konstanz.de >

The University of Konstanz is an equal opportunity employer and tries to increase the number of women in research and teaching. The University of Konstanz is committed to further the compatibility of work and family life and has onsite child care facilities

julian torres <torresdowdall@yahoo.com.ar>

UMaryland Bioinformatics

UNIVERSITY OF MARYLAND COLLEGE OF AGRICULTURE AND NATURAL RESOURCES JOINT INSTITUTE FOR FOOD SAFETY AND APPLIED NUTRITION (JIFSAN) COLLEGE PARK, MARYLAND

POSITION ANNOUNCEMENT Title: Post-Doctoral Associate Position Number: 124010

Unit: Joint Institute for Food Safety and Applied Nutrition/Center for Food Safety and Security Systems

Position Summary/Purpose of Position: JIFSAN, a joint program of the University of Maryland and the U.S. FDA, is seeking a Post-Doctoral Associate to continue efforts to develop computationally efficient pipelines for variant detection and analysis of genomic data from foodborne pathogens (e.g., Salmonella and E. coli) and facilitate the sharing of whole-genome sequence data. The position will require a robust understanding of bioinformatics and the analysis of data from next-generation sequencing technologies.

Responsibilities: * Developing a robust surveillance pipeline for whole-genome sequence data from foodborne pathogens including the clustering of genetically similar isolates and automated reporting of actionable information for compliance and outbreak activities. * Developing an automated process for genomic assemblies and pushing FDA whole-genome sequence data to external databases. * Assisting research microbiologists in the analysis of genomic and metagenomic data and development of bioinformatics workflows to help them achieve their objectives and those of the Center for Food Safety and Applied Nutrition (CFSAN) regarding foodborne pathogens and public safety. * Presenting of data at scientific meetings in either oral or poster form as well as publishing of research and developments in peer-reviewed manuscripts.

Qualifications: * Ph.D. in biology, bioinformatics, computational biology, computer science, or other relevant areas. * Experience with performing expert programming and independent development of workflows and pipelines to manage and analyze next- generation sequence data. * Demonstrated broad and extensive knowledge of computational and programming methods for the management and analysis of next-generation sequence data. * Possesses a strong commitment to producing production level code and best practices in managing and versioning code. * Possesses a working understanding of genomics and biology as it relates to whole-genome sequencing, de novo genome assembly, QC/QA of whole-genome sequence data, etc.

Salary & Benefits: Salary will be commensurate with experience. The University of Maryland offers an extensive benefits package.

Application: All candidates must apply online at https://ejobs.umd.edu. A complete application packet includes a cover letter, CV, unofficial academic transcripts, and three (3) professional references, including name, mailing address, telephone number, and e-mail address.

The University of Maryland, College Park, actively subscribes to a policy of equal employment opportunity, and will not discriminate against any employee or applicant because of race, age, sex, color, sexual orientation, physical or mental disability, religion, ancestry or national origin, marital status, genetic information, political affiliation, and gender identity or expression. Minorities and women are encouraged to apply.

For additional information contact: Dr. James Pettengill Acting Director Biostatistics and Bioinformatics Staff Office of Analytics and Outreach Center for Food Safety and Applied Nutrition US Food and Drug Administration College Park, MD 20740 james.pettengill@fda.hhs.gov

“Pettengill, James” <James.Pettengill@fda.hhs.gov>

UMaryland CichlidSexChromosomes

Postdoc: Sex chromosome evolution in cichlid fishes

The Kocher Lab in the Department of Biology at the University of Maryland seeks to hire a postdoctoral research associate to work on an NSF-funded project studying the evolution of sex determination and sex chromosomes in cichlid fishes.

Overview: Cichlid fishes are exceptionally diverse, with more than 2,000 species distributed across southern Asia, Africa, and the New World. Recent work has discovered unexpected diversity in the sex chromosomes of African cichlids, which include the most rapidly diversifying lineages of the family Cichlidae. This project will test the hypothesis that sexually antagonistic selection is responsible for both the rapid turnover of sex chromosomes, and the rapid rate of speciation in this group. The project has three aims:

Aim 1: Genetic Diversity: Characterize sex chromosome diversity We will use genomic techniques to characterize sex chromosomes across the family Cichlidae. Regions of differentiation between pools of male and female DNA will be identified using whole-genome Illumina sequencing. For species segregating multiple sex determiners, individual genotypes will be obtained using RAD-seq. PacBio long-read sequencing technology will be used to characterize patterns of DNA sequence and structural divergence during the early stages of sex chromosome evolution.

Aim 2: Phylogenetic Diversity: Correlations with life history We will determine whether high rates of sex chromosome turnover are associated with phenotypic correlates of sexually antagonistic selection (e.g. female mouth-brooding of eggs and larvae). We will first construct a new super-tree encompassing all existing phylogenetic studies of cichlids. We will then collect data on the life history and ecology of each species to examine correlations of these traits with rates of phylogenetic and sex chromosome diversification.

Aim 3: Functional Diversity: Incompatibilities and epistatic interactions We will determine whether functional diversity of the gene network underlying sex determination creates genetic incompatibilities by measuring the fitness of hybrids between species with different sex chromosome systems. We will then use laboratory crosses and CRISPR/Cas9 genetic modifications to characterize the epistatic relationships among the various sex chromosomes. These data will allow us to test theoretical predictions about the evolutionary mechanisms of sex chromosome replacement.

Minimum qualifications: A PhD in evolution, genetics, or a related field. Demonstrated bioinformatic skills in genome assembly and the analysis of WGS datasets.

Interested candidates should email Tom Kocher (tdk@umd.edu) and include a CV as an attachment.

Thomas D. Kocher, Professor Department of Biology University of Maryland, College Park email: tdk@umd.edu phone: (301) 405-4496 lab website: http://cichlid.umd.edu/cichlidlabs/kocherlab/- scholar: https://scholar.google.com/citations?user=-K7y6AEEAAAAJ&hl=en&oi=ao The University of Maryland, College Park, an equal opportunity/affirmative action employer, complies with all applicable federal and state laws and regulations regarding nondiscrimination and affirmative action; all qualified applicants will receive consideration for employment. The University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, national origin, physical or mental disability, protected veteran status, age, gender identity or expression, sexual orientation, creed, marital status, political affiliation, personal appearance, or on the basis of rights secured by the First Amendment, in all aspects of employment, educational programs and activities, and admissions.

Tom Kocher <tdk@umd.edu>

UMilano CommunityMetabarcoding

Postdoctoral Fellowship: Reconstructing community dynamics after glacial retreat using environmental DNA

Published: 1 September 2020

Contact: francesco.ficetola@unimi.it

Valid until: 15 December 2020

The Ficetola lab at the Univ. of Milano is recruiting two postdoctoral fellows, funded by the European Research Council (ERC). The successful applicant will take a leading role in the project “IceCommunities: Reconstructing community dynamics after glacial retreat using environmental DNA”, that combines community ecology, environmental DNA metabarcoding and a global approach to understand the evolution of biotic communities in

recently deglaciated areas at an unprecedented detail, and to understand the drivers of biotic colonization.

Research description

Glaciers show a pattern of retreat at the global scale. Increasing areas are exposed and colonized by multiple organisms, but lack of global studies hampers a complete understanding of the future of recently deglaciated terrains. What will be the fate of these areas? How do animals, plants and microorganisms colonize them? Which are the climatic, geological and biogeographical processes determining colonization patterns?

The IceCommunities project is using environmental DNA data to produce unprecedented, massive information on the biodiversity of recently deglaciated terrains at the global scale.

We are looking for both young and experienced candidates with a strong attitude toward the use of advanced statistical techniques to understand ecological processes. Applicants for the position will be hard-working, enthusiastic, independently motivated and willing to lead a significant part of the IceCommunities Project, and will join a highly-dynamic work group, with a strong emphasis on research excellence.

A necessary prerequisite is experience in the use of numerical ecology to assess relationships between environmental variation and modifications of biotic communities. Experience in spatial ecology will be welcomed. Furthermore, the project is based on the use of molecular data (DNA metabarcoding). Experience in the analysis of metabarcoding data is not mandatory but can be useful

Details on the application

The pre-call will be open until we will find the figures best fitting our needs.

The post-doctoral position is available for 12 months, renewable up to a total of 30 months. Salary will be proportional to the experience of candidates

Possible starting dates are between November 2020 to January-February 2020. No deadline for application, the positions will remain open until filled.

Applications should include: CV with list of publications in peer-reviewed journals; a letter explaining research interests and two academic references. Applications should be sent to Francesco Ficetola

For informal inquiries, please do not hesitate to contact me:

Francesco Ficetola, francesco.ficetola@unimi.it

G.F. Ficetola

Department of Environmental Science and Policy

Univ. of Milano-Italy

f.ficetola@libero.it

UMuenster TheotreticalMolecularEvolution

https://www.uni-muenster.de/Rektorat/Stellen/-ausschreibungen/st_20202408_jm1.html In brief, we are looking for an enthusiastic, organised and determined postdoctoral researcher with an educational background in (bio-)chemistry, (bio-)physics, mathematics and/or bioinformatics who has strong publication record and experience in analysing biological data concerning protein and/or genome evolution or modelling molecular evolutionary scenarios.

S/he will participate in several projects (see http://-bornberglab.org/researches for details) such as the reconstruction and functional testing of past evolutionary events of genes, genomes and proteins, modelling molecular fitness landscapes and analysing the emergence and functionality of de novo emerged proteins. The successful candidate is expected to have a proven publication and presentation record in English, to be ready and willing to supervise students and will be encouraged and expected to build up their own related, research agenda in order to apply for additional funding.

Applications should be sent to ebb.admin@wwu.de asap, we expect the post holder to take up post in early 2021 but there is no fixed starting date.

Many thanks, eb

Related references: https://pubmed.ncbi.nlm.nih.gov/-22927372/ https://pubmed.ncbi.nlm.nih.gov/-30201962/ https://pubmed.ncbi.nlm.nih.gov/-31636435/ https://pubmed.ncbi.nlm.nih.gov/-27288445/ https://pubmed.ncbi.nlm.nih.gov/-18479505/ Erich Bornberg-Bauer PhD, Prof. of Molecular Evolution + Genomeinformatics Institute for Evolution and Biodiversity, Huefferstrasse 1 D-48149 Germany Westfalian Wilhelms University Muenster, bornberglab.org ebb.admin@wwu.de Phone / Fax / Direct Line: +49 (0) 251 83 21630 / 24668 / 21011

Mind the environment: don't spam, chat, surf etc., see: websitecarbon.com

"E. Bornberg" <ebb@uni-muenster.de>

UOklahoma FishGenomics

Postdoctoral Scientist

The fish labs of R. Broughton, R. Betancur, and D. Arcila in the Department of Biology and Sam Noble Museum of Natural History at the University of Oklahoma are jointly recruiting a highly motivated postdoctoral fellow to work on research projects on fish genomics and evolution. One of these projects aims to investigate the genomics of hybridization and diversification in fishes in the genus Cyprinella across their range in central and southwestern North America. This will include generating a chromosome-level reference genome along with genome resequencing and transcriptomic data from multiple individuals and populations. Other genomic methods to assess evolutionary parameters of populations and taxa may also be used.

The ideal candidate will have experience or a strong interest in population genetics, genomics, comparative biology, and/or phylogenetics. Desired skills include the ability to collect fishes in the field by seining in creeks and rivers, big data management and statistical analyses, proficiency with Unix/Linux, use of R, Python, etc., or other computational skills. Postdoctoral researchers in our labs are encouraged to develop collaborations with other groups and to start developing an independent research program.

For inquiries about the position interested candidates can contact R. Broughton, R. Betancur or D. Arcila with a cover letter, CV, and contact information for up to three references. The anticipated start date is flexible, but the position can start as early as October 2020. The position may be available for up to 3 years, pending satisfactory performance. Review of candidates is ongoing and will continue until the position is filled.

Richard Broughton <rbroughton@ou.edu> http://www.ou.edu/cas/biology/people/faculty/richard-broughton R. Betancur & D. Arcila < ricardo.betancur@ou.edu, dahiana.arcila@ou.edu> http://www.fishphylogeny.org "Santaquiteria Gil, Aintzane" <a.santaquiteria@ou.edu>

UppsalaU ButterflyEvolutionaryGenomics

PostDoc Position at Uppsala University - Butterfly Evolutionary Genomics

We are seeking to hire a PostDoc to the Evolutionary Biology program at Uppsala University. The formal ad can be found here: https://www.uu.se/en/about-uu/join-us/details/?positionId=350078 Project description: The aim of the project is to investigate the genetic basis of migratory behavior in butterflies - a hitherto understudied field of research that directly relates to conservation of insect and plant biodiversity, pest control and disease dynamics. The main goal is to identify genetic pathways involved in migratory behavior in butterflies, with particular focus on the painted lady (Vanessa cardui), a virtually cosmopolitan butterfly species with complex patterns of intraspecific variation in migratory strategies. This will be achieved by using state-of-the-art sequencing technologies to develop high-quality genome assemblies and epigenetic- and transcription activity maps of selected populations/species.

Requirements: To qualify for an employment as a Postdoctoral you must have a PhD degree or a foreign degree equivalent to a PhD degree in in evolutionary biology, genetics/genomics, bioinformatics, or another relevant field. The PhD degree must have been obtained no more than three years prior to the application deadline. The three year period can be extended due to circumstances such as sick leave, parental leave, duties in labor unions, etc.

Experience in analyses of next-generation sequencing data is necessary, as is a background in population genetics/genomics. We attach great importance to personal qualities such as collaboration skills, ability to work independently, scientific maturity and creativity. Candidates must be able to express themselves fluently in spoken as well as written English.

Additional qualifications: The ideal candidate is highly motivated and enthusiastic about evolutionary biology and has a good understanding of population genomics and evolution theory. Thorough experience with scripting and programming is advantageous as is experience from working with migratory species.

Instructions for the application: The application should include 1) a letter of intent describing yourself, your

research interests and motivation of why you want to work as a postdoctoral researcher and why you are suitable for the position, 2) a CV including your publication record, 3) a short description of your previous education, 4) a copy of your PhD degree, 5) name and contact information to at least two reference persons (e-mail address and phone no.). The application should preferably be written in English.

Starting date: 2021-01-01 or as otherwise agreed.

Type of employment: Temporary position for 24 months, according to central collective agreement.

For further information about the position please contact: Senior Lecturer, Niclas Backström, niclas.backstrom@ebc.uu.se, +46 18 471 64 15.

Please submit your application by 2020-10-15, UFV-PA 2020/3103.

När du har kontakt med oss pÃ¥ Uppsala universitet med e-post sÃ¥ innebär det att vi behandlar dina personuppgifter. För att läsa mer om hur vi gör det kan du läsa här: http://www.uu.se/om-uu/dataskydd-personuppgifter/ E-mailing Uppsala University means that we will process your personal data. For more information on how this is performed, please read here: http://www.uu.se/en/about-uu/data-protection-policy Niclas Backström <niclas.backstrom@ebc.uu.se>

UPrimorska WildlifeManagement

*Field of expertise: *wildlife monitoring, ecology, management, conservation, citizen science

Project description: The University of Primorska is coordinating institution of a Horizon 2020 project Science Transformation in EuroPe through Citizens involvement in HeAlth, coNservation and enerGy rEsearch. The post holder will be integrated in this project, which focuses on validation of citizen science data in wildlife monitoring. The project aims at exploiting to its full potential, extending and up-scaling the already existing Slovene hunters' wildlife observation database, by developing data collection software for mobile phones, evaluating the effects of citizens' training in data collection, and establishing a data validation procedure to minimise biases in data collecting and analysing. The outcomes will be integrated with genetic information and used to foster a dialogue with policy makers and further improve science-based wildlife management.

Your tasks: You will analyse species diversity, evenness of distribution of different species, population size, different parameters of life-history traits of wild ungulates etc., all these based on data that have been collected by the Slovenian hunting organization since 2006, and new data obtained during the project. You will also contribute to the validation of citizen science and hunters' data. You should be able to implement a comprehensive approach to combine spatial and presence information with fragmentation of the landscape, timeframe, ecological characteristics of the area etc. You are also expected to be able to run and test models to validate collected data and infer past and future trends.

Your profile: - A relevant university education with a completed doctoral/PhD degree with a minimum of four first- or corresponding authorship publications in international SCI peer-reviewed journals, and a strong potential in research. - Relevant knowledge and willingness to work in ecological statistics. - Willingness to teach (in English or Slovene) at Bachelor and Master studying courses at the University of Primorska, to supervise graduation/master theses, and to promote young scientists. Excellent spoken and written English is required.

We offer: - The advertised position is for an initial period of 3 years with the possibility to be appointed as Research associate or/and Assistant Professor depending on funding availability and successful evaluation of the candidate. - The position will be paid according to category of the Collective agreement for employees at Slovenian universities, stipulating an initial gross salary of 2.300 EUR with food and transfer subsidy in line with Slovene labour legislation.

Application instructions: Interested applicants are requested to send a detailed application in electronic form to stepchange@famnit.upr.si, and "Postdoc in wildlife management" in the object. Please attach in pdf format: - a CV (with copies of diplomas), - a list of publications with copies of up to five the most relevant publications.

Application deadline: *November 15th, 2020*

PhD Laura Iacolina Mammalian Biology subject editor https://www.researchgate.net/profile/Laura_Iacolina/-info https://lauraiacolina.wordpress.com/ lauraiacolina@gmail.com

UQuebecOutaouais Conservation-GeneticsBlandingTurtle

A postdoc / research professional position is available immediately at the Ecological and Environmental Genomics Lab, Université du Québec en Outaouais / Institut des Sciences de la Forêt Tempérée

Project summary: To efficiently protect threatened species, it is first necessary to obtain precise information on the distribution, abundance, and diversity of target populations. For most species, standard monitoring methods require a considerable amount of time. To facilitate the detection and monitoring of threatened species' populations, the development of new methods that are both quicker and more sensitive is needed. Environment DNA is now routinely used to detect many aquatic species. However, this method is still rarely used to measure a species' abundance in a given habitat. Furthermore, data on genetic diversity and population genetic isolation are also needed to design an efficient restoration plan, and these data could potentially be obtained directly from eDNA. The objectives of this project led in collaboration with several federal and provincial agencies are to develop a semi-quantitative method based on eDNA to estimate the abundance of the Blanding's turtle, and to evaluate the possibility to obtain population genetic data directly from eDNA.

Requirements: The candidate should have a PhD in biological sciences, or an equivalent research experience. Ideally, the candidate will have a strong experience both in molecular ecology lab techniques and in the bioinformatic analysis of next-generation sequencing data. Depending on the candidate's interests, the participation to other projects is possible (we have several projects on hardwood tree population genomic and climate adaptation). The exact position (postdoc or research professional) and the salary (from about 38,000 CAD / year plus benefits) will depend on the candidate's experience. The position is available immediately for one year, with funding available for at least another year.

Location: The lab is located at the Institut des Sciences de la Forêt Tempérée (https://isfort.uqo.ca/) in Ripon, a small village located at 1h from Ottawa and 1h30 from Montreal, a gorgeous location with plenty of outdoor activities available. Most shops / people in the area are bilingual so knowledge of French is not required but can be helpful.

If interested, please contact Yann Surget-Groba (yann.surget-groba@uqo.ca) with your CV, a motivation letter and three reference letters.

Yann

"yann.surget-groba@uqo.ca" <yann.surget-groba@uqo.ca>

USouthernCalifornia PopGen

The Edge Lab (https://edgepopgen.github.io/edgelab/) at the University of Southern California is hiring up to two full-time postdoctoral researchers to work on projects in computational population genetics. The postdocs will be funded by an NIH grant targeted at understanding complex traits using population-genomic tools, as well as on the intersection of population genetics and genetic privacy. Postdocs will have latitude to design their own projects within these broad areas in collaboration with Doc Edge.

Execution of projects will require some combination of population-genetic modeling, data simulation, bioinformatics, and data analysis. However, successful candidates need not be proficient in all these fields when they apply.

The Edge lab is part of USC's quantitative and computational biology section, a dynamic environment for pursuing computational biology research. USC is in Los Angeles, a diverse city with appealing weather year-round. Remote work is expected initially (due to the ongoing COVID-19 pandemic) and negotiable afterward. The positions have a competitive salary and benefits. The positions are available in October, but start date is flexible.

The Edge lab is committed to fostering a welcoming, supportive lab environment. You can read about our lab culture and policies here (https://edgepopgen.github.io/-edgelab/culture/).

To apply, go to https://usccareers.usc.edu/job/los-angeles/postdoctoral-scholar-research-associate/1209/-17354951 . Informal inquiries are also welcome at edgem [at] usc [dot] edu . Review will begin October 9th, and applications will be considered until the positions are filled.

Doc Edge <edgem@usc.edu>

UTasmania GenomicTranstions-SexDetermination

Postdoc position: Genomic transitions between modes of sex-determination

Fixed term, full-time, 3 years

Based at the University of Tasmania, Hobart

PROJECT THEME

Sex-determination controls the most significant variation within animals - the division into males and females. While the different systems of sex-determination involving genetic or environmental control are relatively well understood, transitions between these systems remain enigmatic in evolutionary biology. This project aims to address this gap by revealing the genomic changes required to transition between modes, using one of only two known lizard species exhibiting both genetic and temperature control of sex. This knowledge will have important implications for species conservation, facilitating predictions of highly biased sex ratios under climate change, plus potential commercial applications for species where the production of one sex is favoured.

A Postdoc position is available to contribute to this research. The postdoc will perform advanced genomic and transcriptomic sequencing of species of Australian lizards to identify the genomic changes accompanying transitions between genetic and temperature-dependent sex determination.

This collaborative research project is funded by an Australian Research Council Discovery Project grant awarded to the University of Tasmania (Assoc Profs Erik Wapstra and Chris Burridge), the University of Canberra (Prof Tariq Ezaz), and the University of Vienna (Prof. Oleg Simakov). This Postdoc will be based at the University of Tasmania, but will also work closely with Prof Simakov at the University of Vienna and a PhD student conducting related cytogenetic studies at the University of Canberra.

THE IDEAL CANDIDATE

The ideal candidate is expected to have knowledge in relevant aspects of genomics (e.g. NGS genome and transcriptome sequencing, mapping, screening for orthologs and homologs, assembly, annotation). Knowledge of sex determination is also desirable. The candidate will be self-motivated and well-organised, with a demonstrated capacity to learn and apply the broad skill set necessary for the successful completion of a research project. The successful candidate will be able to work alongside a wide variety of people in multi-function and multicultural laboratories. The successful candidate will also have a strong commitment and demonstrated excellence in research and research communication.

SELECTION CRITERIA

Essential

A PhD, and experience in a relevant research area

Knowledge and demonstrated expertise in areas such as NGS genome and transcriptome sequencing, mapping, screening for orthologs and homologs, and genome assembly and annotation.

A demonstrated record of publication of scientific research in high-ranking international peer-review journals

Desirable

Knowledge of sex determination systems

Knowledge and demonstrated expertise in phylogenetics, trait mapping, and ancestral state reconstruction

The position is open to all nationalities. There is the potential to start this project remotely (i.e., outside Australia), given the nature of the project, desired start time (late 2020, early 2021) and the current challenges of international travel to Australia.

REMUNERATION

Appointment to this role will be at approximately $AUS 75,075 p.a., plus superannuation

HOW TO APPLY

Interested applicants should submit a cover letter, CV, responses to the selection criteria listed above, and contact details of 2 potential referees to: chris.burridge@utas.edu.au

Applications will close Oct 16, 2020

FURTHER INFORMATION For further information about the position please contact chris.burridge@utas.edu.au

chris.burridge@utas.edu.au

UTuebingen Germany MathAndCompPopGen

The newly founded independent junior research group Mathematical and Computational Population Genetics headed by Franz Baumdicker at the University of TÃÂ¼bingen has an opening for

Postdoctoral researchers (f/m/d)

The group develops and applies mathematical models and bioinformatic tools with a special focus on microbial evolution. We are interested in a variety of evolutionary scenarios including CRISPR Cas Evolution, Pan-Genome Evolution, Horizontal Gene Transfer, Fluctuation Selection, and Cooperation in Bacteria. The postdoc will work at the intersection of Mathematical Population Genetics / Computational Biology / Bioinformatics using mathematical population genetics, phylogenetics, statistical analysis, machine learning algorithms, and large scale simulations to derive new theoretical results, develop open source software and apply them to (microbial) genome data.

For scientific questions please contact fbaumdicker@gmx.de.

Candidate profiles we would love to see:

PhD degree in (Bio-)Mathematics, Statistics, Bioinformatics, Computational Biology or a related field Interest in interdisciplinary research Strong mathematical preparation and interest Good computational skills (e.g. in Python, R) Independent, responsible and committed work Fluency in (scientific) English

What we offer:

Salary according to TV-L, E13 (100%) The group is part of two Excellence Clusters (Controlling Microbes to Fight Infections & Machine Learning) in TÃÂ¼bingen, which offers an excellent research environment with plenty of potential collaboration partners. Flexible starting date (e.g. now or in summer 2021) Possibility to start the project remotely in the initial phase Focus on research (no formal teaching duties) Responsibility to conduct your own research projects with a high amount of autonomy

Researchers from outside Germany are particularly encouraged to apply. Applications and inquiries should be sent to office@cmfi.uni-tuebingen.de.

Please send your application as a single PDF file and include a brief statement on your interests and experience, CV (including a possible list of publications and the contact info of two academic references), and university transcripts. Severely disabled persons are given preferential consideration if they are equally suitable.

The review of applications will begin in October 2020 and continues until the positions are filled.

More information can be found at https://uni-tuebingen.de/forschung/forschungsschwerpunkte/-exzellenzcluster-cmfi/aktuelles/stellenangebote and http://www.baumdickergroup.de/index.php/join-us

YaleU BiodiversityMovementEcol

Postdoc Positions in Movement Ecology at Max Planck-Yale Center, Yale University

1-2 Postdoc positions are available associated with the Max Planck-Yale (MPY) Center for Biodiversity Movement and Global Change (https://mpyc.yale.edu). The MPY Center, an International Max Planck Center, is a partnership between Yale University and its Center for Biodiversity and Global Change and the Max Planck Institute of Animal Behavior, Konstanz.

The MPY Center supports research and training around the use of new technologies such as GPS tracking and remote sensing to address questions in ecology, behavior, and global change. Flagship associated projects include the Icarus initiative, a space station-based near-global GPS animal movement observation system, Movebank, which supports the management and integration of movement data, and Map of Life, an infrastructure integrating global species distribution information for research and conservation. The MPY Center's research goal is to analyze individual movement data to address patterns and mechanisms in species distribution, species coexistence, environmental niche associations, animal migrations, and biodiversity change.

We are seeking innovative thinkers with a strong quantitative background who are interested in using existing and forthcoming movement data and remotely sensed information to address questions in the MPY Center remit. Qualifications for the position include a PhD in ecology or behavior or a related field, past experience in collecting or analyzing movement data, a dedication toward conscientious and responsible work in a team, and strong communication skills. An ability to tra-

verse community- and single-species perspectives and to address processes at different spatial and temporal scales are particularly welcome. The position offers thematic flexibility and in their application letter candidates should briefly describe their preferred area of activity. Target start date is winter to summer 2021 and the expected contract length is 2 to 3 years.

The positions are based at Yale University with Center Co-Director Walter Jetz. MPY Center postdocs are able to leverage close collaborative links with Center Co-Director Martin Wikelski and the Max Planck Institute of Animal Behavior. They will also be able to engage in guest lecture, symposium co-organization, and mentoring opportunities and are expected to participate in workshops, training activities and exchanges linking the two MPY Center locations. Yale University offers its postdoc and staff a generous package of benefits. Yale has a thriving and growing community of young scholars in ecology, evolution and global change science in the EEB Department, the Yale Institute for Biospheric Studies, the Peabody Museum, and the Yale School of the Environment. The town is renowned for its classic Ivy League setting, 75 miles north of New York City.

To apply please send, in one pdf, a short cover letter, CV and contact info for three referees to anna.schuerkmann@yale.edu. The selection process will begin on 18 September 2020 and final decisions are expected in early October.

We strongly encourage applications from women and minorities. Diversity, equity, and inclusion are core values in our group, and we believe that a diverse team will enable a broader perspective and enhance creativity.

walter.jetz@yale.edu

WorkshopsCourses

Ingelheim AgingInSocialInsects Nov25-28

Gutenberg Workshops presents: Aging in Social Insects

25 - 28 November 2020 | Ingelheim, near Mainz (Germany)

Hybrid workshop format

A characteristic of social insects is reproductive division of labor, which led to the evolution of disparate phenotypes or castes, which differ not only in behavior and reproduction, but also in lifespan. Indeed, social insect queens can live for many years (up to several decades), whereas their workers are much shorter lived. In most social insects, female eggs are totipotent and can develop into either queens or workers, in response to conditions experienced during larval development.

Recent advances in molecular biology allow the field of social insect biology to investigate the genes, pathways and gene regulatory mechanisms that control caste differences. It is of great interest beyond social insect research to determine which molecular mechanisms allow social insect queens to live so long.

This Gutenberg Workshop on Aging in Social Insects will bring together researchers investigating the evolution and molecular basis of lifespan in social insects with researchers working on longevity in other model organisms to understand how social evolution led to shifts in the molecular regulation of aging.

Confirmed speakers:

Gro Amdam Arizona State University Tempe, Az, USA Andrew Bourke University of East Anglia, UK Barbara Feldmeyer BIK-F Senckenberg, Germany Thomas Flatt University of Fribourg, Switzerland Jürgen Heinze University of Regensburg, Germany Laurent Keller University of Lausanne, Switzerland Judith Korb University of Freiburg, Germany Daniel Kronauer Rockefeller University, NY, USA Romain Libbrecht Johannes Gutenberg University Mainz, Germany Jürgen Liebig Arizona State University Tempe, Az, USA Alexei Maklakov University of East Anglia, UK Mario Muscedere Boston University, USA Olav Rüppell University of Alberta, Canada

The workshop will be held as a hybrid workshop format in the scenic Monastery Wasemin Ingelheim, providing a stimulating atmosphere for scientific talks and discussions. Due to the COVID-19 pandemic and the ongoing restrictions, there are limited spaces available on site as well as the possibility of a remote online participation.

For all further information and the application for the workshop, please visit:https://gutenberg-workshops.uni-mainz.de/aging-in-social-insects-nov-20/ We look forward to seeing you in Ingelheim or virtually!

Prof. Dr. Susanne Foitzik Institute of Organismic and Molecular Evolution Johannes Gutenberg University Mainz Biozentrum Hanns Dieter Hüsch Weg 15 D-55128 Mainz Germany Tel: +49 (0) 6131 39 27 840 Fax: +49 (0)6131 39 27 850 Email: foitzik@uni-mainz.de

“Foitzik, Susanne” <foitzik@uni-mainz.de>

Ingelheim Mutualisms Nov4-7

Gutenberg Workshops presents: The Rise and Fall of Mutualisms - Ecological and Evolutionary Dynamics of Host-Microbe Symbioses 4 - 7 November 2020 | Ingelheim, near Mainz (Germany)

Hybrid workshop format

Mutualisms are ubiquitous in nature and shape the ecology and evolution of all living organisms on the planet, from microbes to plants and animals. As such, mutually beneficial interactions are subject to intensive research efforts, and important facets from the molecular level to the processes governing the assembly of interacting communities are currently being elucidated.

The Gutenberg Workshop on The Rise and Fall of Mutualisms will bring together leading scientists in this field to discuss recent developments on the factors stabilizing cooperation in mutualisms, the molecular underpinnings of the partners’ interactions, the determinants of host colonization and microbial community assembly, and the impact of mutualistic associations on the ecology and evolution of the interacting partners.

Confirmed speakers: Gordon Bennett, UC Merced, USA Helge Bode, University of Frankfurt, Germany Nicole Dubilier, Max Planck Institute for Marine Microbiology, Germany Takema Fukatsu, AIST Tsukuba, Japan Ruben Garrido-Oter, Max Planck Institute for Plant Breeding Research, Germany Annika Guse, University of Heidelberg, Germany Maria Harrison, Cornell University, USA Toby Kiers, Vrije Universiteit Amsterdam, The Netherlands Christian Kost, University of Osnabrück, Germany Sara Mitri, University of Lausanne, Switzerland Katharina Ribbeck, MIT, USA

The workshop will be held as ahybrid workshop formatin the scenic Monastery Wasemin Ingelheim, providing a stimulating atmosphere for scientific talks and discussions.Due to the COVID-19 pandemic and the ongoing restrictions, there are limited spaces available on site as well as the possibility of a remote online participation.

For all further information and the application for the workshop, please visit:https://gutenberg-workshops.uni-mainz.de/rise-and-fall-of-mutualisms-nov-2020/ We look forward to seeing you in Ingelheim or virtually!

Prof. Dr. Martin Kaltenpoth Department for Evolutionary Ecology Institute for Organismic and Molecular

Evolution Johannes Gutenberg University Mainz Hanns-Dieter-Hüsch-Weg 15 55128 Mainz Phone: +49-6131-3924411 Email: mkaltenpoth@uni-mainz.de

Department of Insect Symbiosis Max Planck Institute for Chemical Ecology Hans-Knöll-Str. 8 07745 Jena Email: kaltenpoth@ice.mpg.de

"Kaltenpoth, Dr. Martin" <mkaltenpoth@uni-mainz.de>

Online GeneRegulationEpigenomics Jan11-15

Dear all,

registrations are now open for the course "NGS analysis for gene regulation and epigenomics": (https://www.physalia-courses.org/courses-workshops/course59b/)

When: 11-15 January 2021

Where: Online via Zoom (from 2 to 8 pm CET).

Instructors: Dr. Jacques Serizay Mr. Cyril Matthey-Doret (Institute Pasteur, FR)

is course will introduce biologists and bioinformaticians to the field of regulatory genomics. We will cover a broad range of software and analysis workflows that extend over the spectrum from the best practices in the quantitative analysis of ChIP-seqand ATAC-seq data to the analysis of the chromatin 3D structure (such as A/B compartments, chromatin loops or TADs). This course will help the attendees gain accurate insights into local and spatial regulatory functions of the chromatin.

We will start by introducing general concepts of chromatin biology. From there, we will then continue to describe all majoranalysis steps from the raw sequencing data to the processed and usable data. Finally, we will focus more specifically on thedifferent analyses strategies to use to extract information from genomic datasets such as Hi-C, ATAC-seq or ChIP-seq

Here you can find the full list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

All the best,

Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org http://www.physalia-courses.org/ Twitter: @physacourses mobile: +49 17645230846 https://groups.google.com/forum/-#!forum/physalia-courses info@physalia-courses.org

Online MetabolomicsInR Dec14-17

Dear all,

registrations are now open for our online course "Metabolomics in R" which will take place in December (14th-17th) .

Course website: https://www.physalia-courses.org/-courses-workshops/course55/ The aim of the course is to cover some of the fundamental aspects of metabolomics from the "data analyst" point of view. We will cover all the key aspects which have to be considered to set-up a successful metabolomics investigation, from the practical issues related to study/analytical design to data pre-processing and statistical analysis. The course will be delivered relying on a mixture of lectures, computer-based practical sections, and group discussions.

Programme:

D1: what, why, how . 2-8 pm (GMT+2) What is metabolomics (targeted and untargeted) Study design considerations Analytical chemistry in metabolomics Integrating Data Analysis and Data Collection Data sharing and reproducibility

D2: From zero to R 2-8 pm (GMT+2) R and RStudio Visualizing your data Data carpentry (practical Multivariate visualization by PCA

D3: Untargeted Metabolomics 2-8 pm (GMT+2) Preprocessing of MS based untargeted metabolomics data The pre-processing workflow Let's do it in R with xcms Are my data OK? Quality assessment Missing values and imputation >From Features to compounds annotation

D4: Analyzing a metabolomics data matrix 2-8 pm (GMT+2) Univariate Approach: Introduction to statistical testing and modeling Multiple testing Multivariate approaches: PCA, PLS, Random Forest

Here you can find the full list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

Best regards,

Carlo

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Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org http://www.physalia-courses.org/ Twitter: @physacourses mobile: +49 17645230846 https://groups.google.com/forum/-#!forum/physalia-courses info@physalia-courses.org

Online MicrobialMetabarcoding Nov23-27

Dear all,

last 4 seats available on the Physalia course “16 S/ITS Metabarcoding of microbial communities” - ONLINE - 23rd -27th November

Course website: (https://www.physalia-courses.org/-courses-workshops/course30/)

Instructors: Dr. Daniel Pass (University of Cardiff, UK); Dr. Xavier Harrison (University of Exeter, UK); Dr. Bruno Fosso (CNR, Italy); Dr. Anna Sandionigi (University of Milan Bicocca, Italy)

This course will provide a thorough introduction to the application of metabarcoding techniques in microbial ecology. The topics covered by the course range from bioinformatic processing of next-generation sequencing data to the most important approaches in multivariate statistics.

After completing the course, the participants should be able to understand the potential and limitations of metabarcoding techniques as well as to process their own datasets to answer the questions under investigation.

Here you can find the full list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: (mailto:info@physalia-courses.org)

All the best, Carlo

Carlo Pecoraro, Ph.D Physalia-courses DIRECTOR info@physalia-courses.org http://www.physalia-courses.org/=0A=0ATwitter: @physacourses mobile: +49 17645230846 https://groups.google.com/forum/-#!forum/physalia-courses info@physalia-courses.org

Online MultivariateTraitsEvolution Nov9-13

Dear colleagues,

Registration is open for the Transmitting Science course “Modelling and Analysing Multivariate Traits Evolution using mvMORPH”, November 9th-13th, 2020.

This course will be run Online (live)

Instructor: Dr. Julien Clavel (NNRS, France)

Course overview In this workshop students will be introduced to multivariate phylogenetic comparative methods with the mvMORPH R package. The mvMORPH package contains tools for modelling the evolution of correlated continuous traits (e.g. morphometric measurement, geometric morphometric datasets, life history traits, gene expression data, etc.) on phylogenetic trees [with either fossil species, extant species or both] as well as statistical tools such as multivariate generalized least squares (GLS) linear models -e.g. multivariate regression, MANOVA, MANCOVA ’V for studying comparative datasets.

In this course, students will be first introduced to some theory with illustrative examples (both from simulated data as well as students’Â own datasets) and will learn how to interpret the models, their parameters, as well as how to assess their reliability.

For more information please check the course webpage:

https://www.transmittingscience.com/courses/-evolution/modelling-and-analysing-multivariate-traits-evolution-using-mvmorph/ or write to courses@transmittingscience.com

With best regards

Sole

soledad.esteban@transmittingscience.org

Online NanoporeRNAseq Jan18-22

Dear all,

registrations are now open for the ONLINE Physalia course "An introduction to Nanopore direct RNA Sequencing"

When: 18-22 January 2021

Course website: (https://www.physalia-courses.org/-courses-workshops/course59c/)

This course is structured over 5 days of theoretical and hands-on training and covers the majority of the concepts and challenges commonly faced when analysing direct RNA-Seq data. It will start from common tasks such as data QC and gene expression quantification and then move on to more advanced topics such as transcriptome assembly, polyA-tail length measurements and RNA modifications detection.

This course is intended for an audience of researchers with a certain degree of familiarity with RNA sequencing concepts. While not exclusively directed to attendees with bioinformatics training, the majority of the practicals will make use of command-line tools. Therefore some experience with a *nix environment (e.g. Linux or MacOS) and the shell (e.g. Bash) are highly desirable. Some familiarity with R will also be an advantage.

Programme: (https://www.physalia-courses.org/-courses-workshops/course59c/curriculum59c/)

Here you can find the full list of our courses and Workshops: (https://www.physalia-courses.org/courses-workshops/)

Should you have any questions, please feel free to contact us: info@physalia-courses.org

All the best,

Carlo

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Online Paleogenomics Nov16-20

Dear all,

we have the last places available for the 3rd edition of our course "Paleogenomics - from metagenomics to phylogenomics", which will take place ONLINE from the 16th to the 20th of November.

Course website: (https://www.physalia-courses.org/-courses-workshops/course27/)

Instructors: Dr. Amine Namouchi (CEES, University of Oslo, Norway) and Dr. Claudio Ottoni (University of Rome Sapienza, Italy)

This course will introduce biologists to the main bioinformatics tools for the analysis of Next Generation Sequencing (NGS) data from ancient samples. Through a series of theoretical and practical hands-on sessions, this course will give you a clear understanding of the most common bioinformatics methods adopted in a wide range of paleogenomics projects. During the course we will cover various steps from metagenomics screening of ancient samples and taxonomical assignment, to NGS reads mapping, authentication through post-mortem damage analysis, variants calling and filtering, and phylogenomics.

Here you can find the full list of our courses and Workshops: https://www.physalia-courses.org/courses-workshops/ Should you have any questions, please feel free to contact us: info@physalia-courses.org

Best regards,

Carlo

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Online VariantDetection Sep14-17

The University of Connecticut's Computational Biology Core is offering a workshop on variant detection focused

on short read whole genome sequencing data. The workshop will take place over 4 days for three hours each day.

Dates: September 14 - 17 (4 days)

Time: 9.00am - 12.00pm

Location: Online

Cost: $300

Workshop schedule

Day 1: Introduction to Linux, High performance computing

Day 2-4 : Introduction, reference genome preparation, download and QC of sequence data, sequence alignment, QC and post-processing, variant detection using freebayes, GATK and bcftools, filtering and comparing variant sets, functional annotation, visualization.

Registration

To register, please follow this link: https://docs.google.com/forms/d/e/-1FAIpQLSfLOFI2iFbBNax9gcXGPkvhpM2lL0Qc09Gm4HPz44rGcheWFA/-viewform Workshop FAQ

Who should attend?

Anyone with keen interest and desire to develop variant detection analytic skills. Prior course participants have included faculty, post docs, grad students, advanced undergraduates, staff, and industry researchers.

What are the prerequisites?

Prior bioinformatic experience is not required. We have dedicated the first day of workshop to the basics of Linux and high performance computing.

What do I need?

You will need your own laptop to use, have a recent version of R, RStudio installed, and some other applications. We will send you details of softwares and installation instructions with your registration acknowledgement email.

Can I bring my own data?

We will provide experimental datasets for use during the workshop, as this helps to keep the workshop moving. There will be time, however, to discuss your own datasets and how you might work with them outside of the workshop.

How much does it cost?

The registration fee is $300. It is payable at the time of registration with credit card or KFS (for UConn affiliates).

Where is the workshop?

It will be held on Blackboard-Collaborate platform, and will run from 9:00am to 12:00pm on the date indicated.

How do I apply?

All registration is "first-come, first-served." There is no application process. Sign up as soon as possible to ensure your place in the workshop.

Questions?

If you have any questions, please don't hesitate to contact us at cbcsupport@uconn.edu

noah.reid@uconn.edu

UGothenburg BioinformaticPipelinesForGenomicAnalysis Nov9-13

Dear all, Please find below the preliminary schedule and general aims of the course, "An introduction to bioinformatic tools for population genomic data analysis", offered November 9-13 2020 by the Department for Marine Sciences, University of Gothenburg.

There is no course fee. Due to Covid-19 restrictions, the course will be offered via Zoom this year.

The course will be open to a maximum of 18 students, as large parts of the course will consist of hands-on exercises. The aim is a broad mix of students both from the University of Gothenburg and from the outside, mainly PhD students but postdocs are also welcome to apply.

Knowledge of general molecular biology and genetics is necessary, as is some previous experience with command-line interfaces. Previous experience working on a remote server will also be beneficial. No previous bioinformatics skills are needed, however.

For more information and registration, see:

https://sites.google.com/view/-bioinformaticpipelines2020/home or https://-fubasdoc.gu.se/fubasextern/info?kurs=NMAR302 Deadline for registration is October 25th 2020.

All students need to have their own computers with an ssh client installed for work on remote servers.

Best wishes,

Pierre De Wit, Mats Topel, Mikhail Matz

An introduction to bioinformatic tools for population genomic data analysis, 2.5 higher education credits

Third Cycle

Faculty of Science; Department of Marine Sciences

University of Gothenburg

1. Course content

This course aims at detailed understanding and hands-on experience of using state of the art bioinformatics pipelines for one's own biological research questions. An important aspect of the course is to show how genomic data can be applied to address and answer research questions in the fields of genetics, ecology, population biology, biodiversity monitoring and conservation. The students will be trained in the latest bioinformatic methods to analyze high throughput sequencing data, which is present in many research projects. The course will cover basic computing tools required to run command line applications, processing high throughput sequencing data of whole genome / exome / restriction site digested (RAD) DNA for population genomic studies.

The first part of the course introduces general computing tools for beginners such as the UNIX command line environment, bash commands, data formatting using regular expressions and basic scripting in the Unix shell with a series of examples and exercises using a remote server. The course introduces bioinformatics software for analysis of RAD-data, and downstream population genetic analysis of genotype data. The course also introduces basic and advanced concepts of population genomics data analysis such as genome assembly, alignment/mapping, SNP genotyping, PCA, population structure analysis, outlier tests, and demographic analysis based on allele frequency spectra (AFS).

The course corresponds to 1.5 weeks of full time studies and and is composed of lectures, demonstrations and computer labs.

2. Learning Outcomes

1. Knowledge and understanding 1a. Demonstrate advanced knowledge of experimental strategies, applications and bioinformatic tools for population genomics. 1b. Demonstrate advanced knowledge of the potential of genomics approaches to answer ecosystem-wide questions, in particular for biodiversity monitoring.

2. Skills and abilities 2a. Ability to use basic commands in the Unix command line environment (reformatting data with regular expressions, basic scripting, running python scripts from the Unix shell)

2b. Ability to use different software tools to analyse sequence data from restriction-site digested DNA (data cleaning steps, clustering of reads, mapping to reference genomes, extracting and filtering genotype data.

2c. Ability to use population genomics software tools to assemble and a genome/transcriptome, and perform gene alignment/mapping, differential gene expression, functional enrichment tests, SNP genotyping, PCA, outlier tests, population structure, and demographic analysis.

3. Judgement and approach 3a. Formulate one's own research questions, identify data and tools needed to answer these questions and critically evaluate and analyse the results.

3. Suggested reading

General computing tools.

Useful textbooks for the introduction of general computing tools: - Haddock and Dunn (2010). Practical computing for Biologists. Sinauer Associates. - Buffalo (2015). Bioinformatics data skills - Reproducible and robust research with open source tools. O'Reilly Media inc.

Genome Assembly

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Instructions

Instructions: To be added to the EvolDir mailing list please send an email message to Golding@McMaster.CA. At this time provide a binary six letter code that determines which messages will be mailed to you. These are listed in the same order as presented here — Conferences; Graduate Student Positions; Jobs; Other; Post-doctoral positions; WorkshopsCourses. For example to receive the listings that concern conferences and post-doctoral positions this would be 100010. Messages are categorized on the basis of their subject headings. If this subject heading is not successfully parsed, the message will be sent to me at Golding@McMaster.CA. In addition, if it originates from 'blackballed' addresses it will be sent to me at Golding@McMaster.CA. These messages will only be read and dealt with when I have time. The code 000000 has all channels turned off and hence gets only a once monthly notifcation of the availability of a monthly review pdf file.

To be removed from the EvolDir mailing list please send an email message to Golding@McMaster.CA. Note that 'on vacation', etc, style messages are automatically filtered and should not be transmitted to the list (I hope), but should you wish to avoid the e-mail's your code can be temporarily changed to 000000.

To send messages to the EvolDir direct them to the email evoldir@evol.biology.McMaster.CA. Do not include encoded attachments and do not send it as Word files, as HTML files, as LaTeX files, Excel files, etc. ... plain old ASCII will work great and can be read by everyone. Add a subject header that contains the correct category "Conference:, Graduate position:, Job:, Other:, Postdoc:, Workshop:" and then the message stands a better chance of being correctly parsed. Note that the colon is mandatory.

The message will be stored until the middle of the night (local time). At a predetermined time, the collected messages will be captured and then processed by programs and filters. If the message is caught by one of the filters (e.g. a subject header is not correctly formated) the message will be send to me at Golding@McMaster.CA and processed later. In either case, please do not expect an instant response.

Afterword

This program is an attempt to automatically process a broad variety of e-mail messages. Most preformating is collapsed to save space. At the current time, many features may be incorrectly handled and some email messages may be positively mauled. Although this is being produced by LaTeX do not try to embed LaTeX or TeX in your message (or other formats) since my program will strip these from the message.